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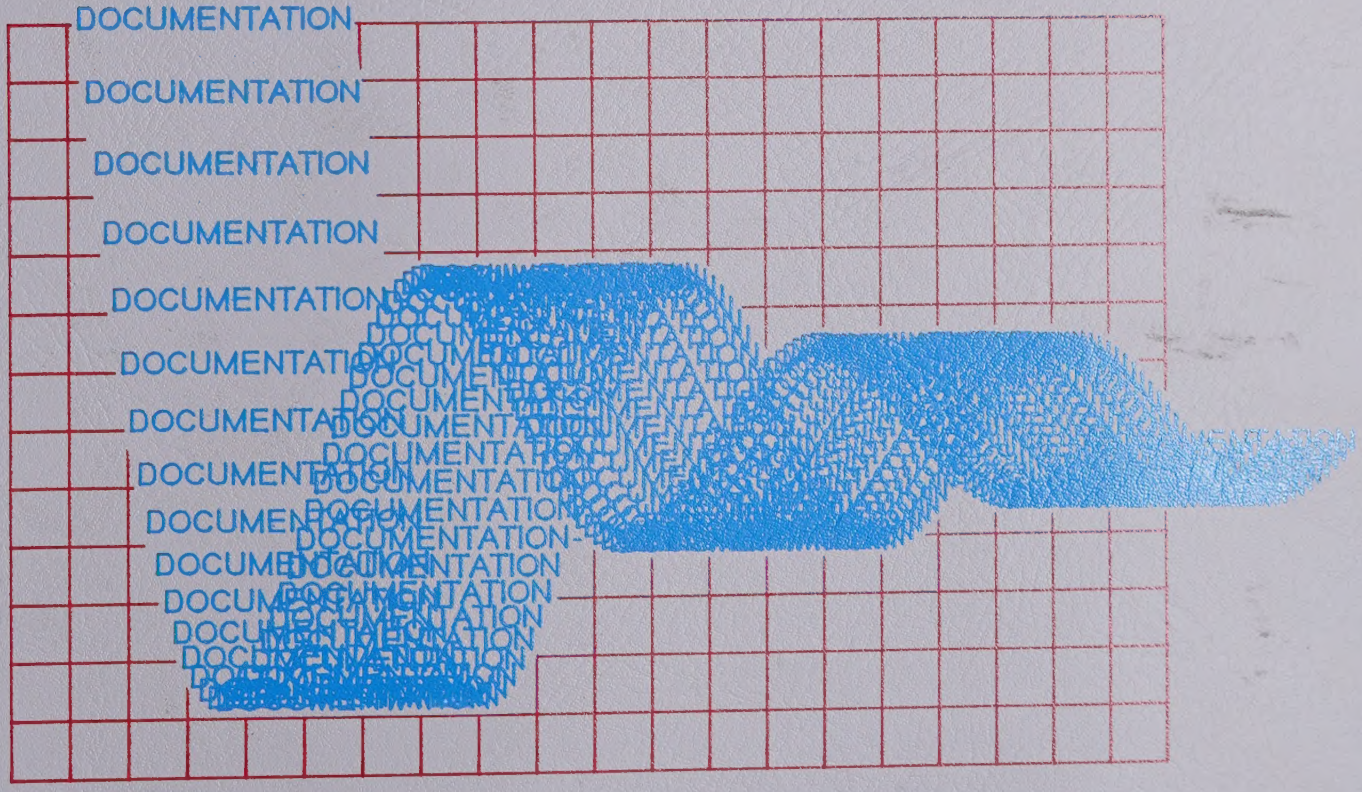

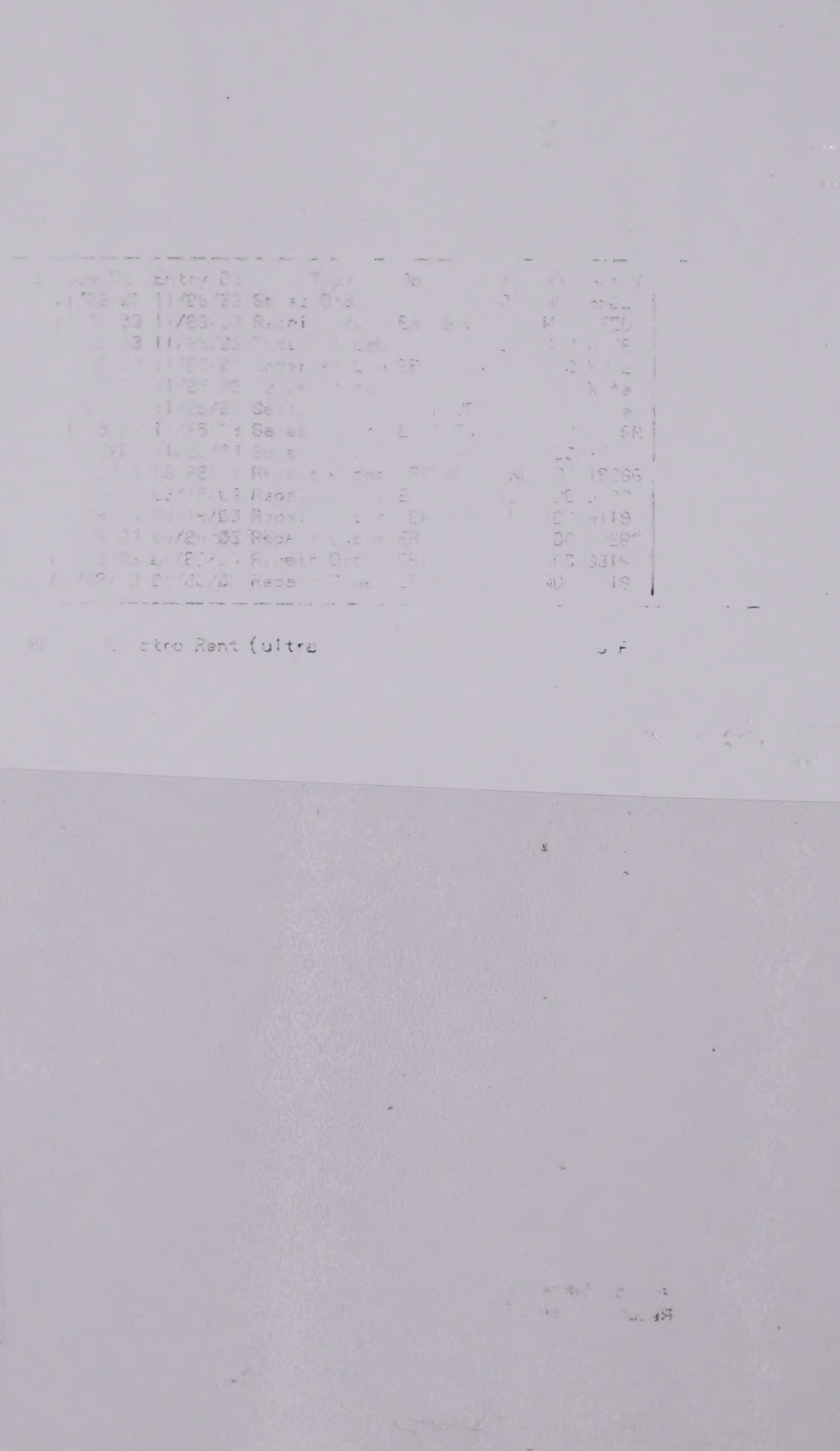

ROHDE&SCHWARZ

Test and Measurement
Division

# Service Manual

# I/Q Modulation Generator

# AMIQ

**1110.2003.02/.03/.04**

Printed in the Federal
Republic of Germany

# Certified Quality System

# ISO 9001

**DQS REG. NO 1954-04**

## Qualitätszertifikat

Sehr geehrter Kunde,

Sie haben sich für den Kauf eines Rohde & Schwarz-Produktes entschieden. Hiermit erhalten Sie ein nach modernsten Fertigungsmethoden hergestelltes Produkt. Es wurde nach den Regeln unseres Qualitätsmanagementsystems entwickelt, gefertigt und geprüft. Das Rohde & Schwarz-Qualitätsmanagementsystem ist nach ISO 9001 zertifiziert.

## Certificate of quality

Dear Customer,

You have decided to buy a Rohde & Schwarz product. You are thus assured of receiving a product that is manufactured using the most modern methods available. This product was developed, manufactured and tested in compliance with our quality management system standards.
The Rohde & Schwarz quality management system is certified according to ISO 9001.

## Certificat de qualité

Cher client,

Vous avez choisi d'acheter un produit Rohde & Schwarz. Vous disposez donc d'un produit fabriqué d'après les méthodes les plus avancées. Le développement, la fabrication et les tests respectent nos normes de gestion qualité.
Le système de gestion qualité de Rohde & Schwarz a été homologué conformément à la norme ISO 9001.

ROHDE&SCHWARZ

Certified Quality System

ISO 9001

# Tabbed Divider Overview

Spare Parts Express Service
List of R&S Representatives
Safety Instructions

## Contents
## Index

Contents of Manuals for I/Q Modulation Generator AMIQ

Tabbed Divider


| | | |
|---|---|---|
| 1 | Chapter 1: | Performance Test |
| 2 | Chapter 2: | Adjustment |
| 3 | Chapter 3: | Repair |
| 4 | Chapter 4: | Firmware Update / Installation of Options |
| 5 | Chapter 5: | Circuit Documentation AMIQ Basic Unit |
| 6 | Chapter 6: | Circuit Documentation IQ Analog/Digital Board |
| 7 | Chapter 7: | Circuit Documentation Power Board |
| 8 | Chapter 7: | Circuit Documentation Differential Outputs |
| 9 | Chapter 9: | Circuit Documentation Digital IQ Outputs |

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# Spare Parts Express Service


**Phone:** +49 89 4129 - 2465

**Fax:** +49 89 41 29 - 3306

**E-mail:** werner.breidling@rsd.rsd.de


In case of urgent spare parts requirements for this Rohde & Schwarz unit, please contact our spare parts express service.

Outside business hours, please leave us a message or send a fax or e-mail. We shall contact you promptly.

# Spare Parts Express Service

Phone: +49 (0) 123 - 7654

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# Contents


**1 Performance Test ..... 1.1**

**Required Measuring Equipment ..... 1.1**

**Test Procedure ..... 1.2**

Power-Up Sequence, Interface Test ..... 1.2

IEC/IEEE-Bus Interface ..... 1.2

RS232 Interface ..... 1.2

Clock Generation ..... 1.3

External Reference Frequency ..... 1.3

Level and Offset Calibration ..... 1.3

Waveform Memory, Standard Sine Curve ..... 1.4

*"Fix"* Mode ..... 1.5

Output Level ..... 1.5

Level Difference ..... 1.5

Residual DC Offset ..... 1.5

Spurious Free Dynamic Range (SFDR) ..... 1.6

*"Variable"* Mode ..... 1.7

Output Level ..... 1.7

Residual DC Offset ..... 1.7

Spurious Free Dynamic Range (SFDR) ..... 1.8

Delay between I and Q Channel (Skew) ..... 1.8

Internal Filters ..... 1.9

External Trigger ..... 1.10

Marker Outputs ..... 1.10

BER Interface ..... 1.11

Bias Voltage and Offset (with Built-in AMIQ-B2 Option) ..... 1.11

Digital I/Q Output (with Built-in AMIQ-B3) ..... 1.13

**Test Report ..... 1.14**

## 2 Adjustment ..... 2.1

**Required Measuring Equipment** ..... 2.1

**Preparation of Network Analyzer** ..... 2.1

**Adjustment of Filters** ..... 2.2

Adjustment of 25 MHz Filters ..... 2.2

Adjustment of I Filter ..... 2.3

Adjustment of Q Filter ..... 2.4

Adjustment of 2.5 MHz Filters ..... 2.4

Adjustment of I Filter ..... 2.5

Adjustment of Q Filter: ..... 2.5

**I/Q Adjustment** ..... 2.6

I/Q Skew Adjustment ..... 2.6

I/Q Amplitude and Offset Adjustment ..... 2.7

Adjustment of Measurement Accuracy of Internal A/D Converter ..... 2.7

Offset Adjustment for Option AMIQ-B2 ..... 2.8

**Diagnosis** ..... 2.9

**Selftest of AMIQ** ..... 2.10

Test Procedure ..... 2.10

Table of Rated Values and Permissible Ranges: ..... 2.10

## 3 Repair ..... 3.1

**Replacement of Modules** ..... 3.1

Replacement of PC Board ..... 3.1

Replacement of Battery on PC Board ..... 3.2

Setting of BIOS ..... 3.2

Replacement of Hard Disk ..... 3.3

Replacement of IQ Board ..... 3.3

Replacement of Power Supply ..... 3.4

**TEST System** ..... 3.5

:TEST:ABOard ..... 3.7

:TEST:BERTest ..... 3.12

:TEST:CALibrate ..... 3.12

:TEST:DIAGnostic ..... 3.12

:TEST:SDRam ..... 3.14

:TEST:SYNThesizer ..... 3.15

4 Firmware Update / Fitting of Options ..... 4.1

Installation of New AMIQ Software ..... 4.1

Re-Installation of Previous Software ..... 4.1

Fitting of Options ..... 4.1

Option AMIQ-B1, "BER Measurements" ..... 4.2

Option AMIQ-B2, "Differential Outputs" ..... 4.2

Option AMIQ-B3, "Digital I/Q Output " ..... 4.2

Option AMIQB19, "Rear I/Q Outputs" ..... 4.2

5 Circuit Documents ..... 5.1

Module and Cable Exchange ..... 5.1

Additional Instrument-specific Mechanical Parts ..... 5.6

Circuit Documents ..... 5.6

Tables ..... 6

6 Circuit Documents IQ Analog/Digital Board ..... 6.1

7 Circuit Documents Power Board ..... 7.1

8 Circuit Documents Differential Outputs ..... 7.1

9 Circuit Documents Digital I/O Outputs ..... 7.1

# Tables

Table 1-1 ..... Measuring Equipment for Performance Test ..... 1.1

Table 1-2 ..... Test Report ..... 1.14

Table 2-1 ..... Measuring Equipment for Adjustment of AMIQ ..... 2.1

Table 3-1 ..... TEST - Self-Test and Diagnosis ..... 3.5

Table 5-1 ..... List of power cables available ..... 5.2

# Index


## A

A/D converter
adjustment ..... 2.7
Adjustment ..... 2.1
2.5 MHz filters ..... 2.4
25 MHz filters ..... 2.2
A/D converter ..... 2.7
AMIQ-B2 ..... 2.8
filters ..... 2.2
I/Q amplitude ..... 2.7
I/Q offset ..... 2.7
skew ..... 2.6
AMIQ-B1 (option) ..... 4.1
AMIQB19 (option) ..... 4.1
AMIQ-B2
adjustment ..... 2.8
Analog board
Settings ..... 3.7
Auto detect ..... 3.2

## B

Battery
Replacement ..... 3.2
BER interface
check ..... 1.11
BER measurement (option) ..... 4.2
BER Measurements (Option) ..... 4.2
BER-Messung (Option) ..... 4.2
BIOS
Setting ..... 3.1, 3.2

## C

Calibration
level and offset ..... 1.3
network analyzer ..... 2.2
Calibration data
Replacement ..... 3.12
Restore ..... 3.4
Save ..... 3.4
Circuit documents ..... 5.6
basic unit ..... 5.7
IQ Analog/Digital Unit ..... See Chapter 6
Circuit Documents ..... See chapter 5
Differential Outputs ..... See Chapter 7
Clock generation ..... 1.3

## D

Design of AMIQ ..... 3.1
Diagnosis (troubleshooting) ..... 2.9

## E

EEPROM
Erase ..... 3.4
External reference frequency ..... 1.3
External trigger
check ..... 1.10

## F

Fault diagnosis ..... 3.5
Filters
internal ..... 1.9

## H

Hard disk
Formatting ..... 3.3
Replacement ..... 3.3

## I

I/Q adjustment
amplitude ..... 2.7
offset ..... 2.7
Interface test ..... 1.2
IEC bus ..... 1.2
RS232 ..... 1.2
Internal filters ..... 1.9
IQ board
Replacement ..... 3.3

## K

Keyboard ..... 3.1

## L

Level calibration ..... 1.3, 1.5
Level difference
mode \fix" ..... 1.5

## M

Marker outputs
check ..... 1.10
Measuring equipment ..... 1.1, 1.2
adjustment ..... 2.1
Mode
"variable" ..... 1.7
\fix" ..... 1.5
Module
order ..... 5.1
Replacement ..... 3.1
Monitor ..... 3.1
Monitor card ..... 3.1

## N

Network analyzer
preparation for adjustment ..... 2.1
settings ..... 2.3

## O


Offset calibration ..... 1.3
Option
  AMIQ-B1 ..... 4.1, 4.2
  AMIQB19 ..... 4.1, 4.2
  List ..... 4.1
Options
  Fitting of options ..... 4.1
Output level
  mode "variable" ..... 1.7
  mode \fix" ..... 1.5


## P


PC board
  Replacement ..... 3.1
PC motherboard ..... 3.2
Performance Test ..... 1.1
Power cables ..... 5.2
Power supply
  Replacement ..... 3.4
Power-Up Sequence ..... 1.2


## R


Rear I/Q Outputs (Option) ..... 4.2
Reference clock
  external ..... 1.3
  internal ..... 1.3
Reference oscillator
  Calibration data ..... 3.4
Repair ..... 3.1
Replacement of modules
  Battery ..... 3.2
  Hard disk ..... 3.3
  IQ board ..... 3.3
  PC board ..... 3.1
  Power supply ..... 3.4
Residual DC offset
  mode "variable" ..... 1.7
  mode fix" ..... 1.5


## S


SDRAM ..... See Output Memory
Selftest ..... 2.10
Self-test
  Remote control ..... 3.5
SFDR
  mode "variable" ..... 1.8
  mode \fix" ..... 1.6, 1.8
Skew
  check ..... 1.8
SMB female connector ..... 2.1
Software
  Installation of new software ..... 4.1
  Installation of previous software ..... 4.1
Spare parts
  order ..... 5.1


## T


Test procedure ..... 1.2
Test report ..... 1.14
TEST System ..... 3.5
Transmission measurement ..... 2.2
Trigger
  external ..... 1.10
Troubleshooting
  diagnosis ..... 2.9


## W


Waveform memory
  test ..... 1.4

# Contents of Manuals for I/Q Modulation Generator AMIQ

## Service Manual

This service manual for I/Q Modulation Generator AMIQ provides information on checking the generator for compliance with rated specifications, as well as on adjustment, repair and troubleshooting. It further contains all the information necessary for repairing the generator by the replacement of modules.

The service manual comprises four chapters and an annex (chapter 5) containing the AMIQ circuit documentation:

**Chapter 1** provides all the information necessary to check AMIQ for compliance with rated specifications. The required test equipment is included, too.

**Chapter 2** describes the adjustment of the 2.5 MHz and 15 MHz filters, adjustment of the I/Q signals and fault diagnosis.

**Chapter 3** describes the design of AMIQ as well as simple measures for repair and fault diagnosis, in particular, the replacement of modules and access to hardware settings by means of service commands.

**Chapter 4** contains information on the extension and modification of AMIQ by installing instrument software and retrofitting options.

**Chapter 5** contains spare parts lists and exploded views of AMIQ.

**Chapter 6** contains the circuit documentation for module „IQ Analog/Digital Unit" (IQ board).

**Chapter 7** contains the circuit documentation for option „Differential Outputs" (AMIQ-B2).

## Operating Manual

The operating manual contains all information on the characteristics, putting into operation, operation and remote control of AMIQ. It further provides hints on preventive maintenance and fault diagnosis by means of warnings and error messages output by the unit.

# 1 Performance Test

This chapter informs you in detail on how to check the AMIQ for compliance with specifications. Please note the general instructions on the test procedure given on page 1.2. The measuring equipment needed for the performance test is listed below, and a test report form is included at the end of this chapter.

Adjusting the unit for compliance with specifications, as well as the measuring equipment needed, is described in chapter 2 of this service manual.

## Required Measuring Equipment

Table 1-1 Measuring Equipment for Performance Test

| Item | Instrument/ equipment | Required characteristics | Suitable unit | R & S Order No. | Described on page |
|---|---|---|---|---|---|
| 1 | Oscilloscope | Bandwidth > 100 MHz<br>2 channels | BOL | 0374.2000.02 | 1.4<br>1.9<br>1.10<br>1.10 |
| 2 | Frequency counter | Frequency min. 100 MHz,<br>Accuracy higher than $1*10^{-6}$,<br>time A-B,<br>resolution min. 10 ps | Philips PM6680 | | 1.3<br>1.3<br>1.8 |
| 3 | AC voltmeter | RMS<br>25 MHz bandwidth | URE3 | 0350.5315.03 | 1.5<br>1.5<br>1.7 |
| 4 | DC voltmeter | +/–5 Volt<br>0 V resolution min. 0.1 mV | UDS5 | 0349.1510.02 | 1.5<br>1.7 |
| 5 | Spectrum analyzer | Min. 100 MHz,<br>dynamic range min. 80 dB | FSE | 1065.6000.20 | 1.6<br>1.8 |
| 6 | Trigger generator | 1 kHz, TTL | APN | 0844.6001.04 | 1.10 |
| 7 | 50 Ω feed-through termination | 0.5 W, 0.1% | RAD 50 | 0844.9352.02 | |
| 8 | 50 Ω BNC connecting cables | Lengths 0.5 m, 1 m,<br>same type of cable for I and Q outputs | | | |
| 9 | 9-pin SUB-D adapter | Connection of BER interface for test | see 5.2.12 | | 1.11 |
| 10 | IEC/IEEE-bus cable | Connection to IEC625/IEEE488 | PCK | 0292.2013.10 | |
| 11 | Null-modem cable | 9-pin RS232 cable<br>with transposed RX-TX lines | | 1050.0346.02 | |
| 12 | Controller | PC/XT/AT industry standard<br>with IEC625/IEEE488 and RS232 interfaces | PSA 5<br>PSA 15<br>PSA 17 | 1006.3008.03<br>1012.1003.02<br>1026.1000.03 | |
| 13 | Connector for digital output | | e.g., AMP 750913 | | |

# Test Procedure

The AMIQ can be operated only by remote control. To check compliance with specifications, therefore, a suitable controller and control software are needed to transmit the commands for the required instrument settings. Transmission may be via the RS232 interface or the IEEE488 interface (see operating manual, chapter 2, "Getting Started").

A warm-up period of at least one hour should be allowed before checking the unit for compliance with specifications.

***NOTE:*** *For the R&S service centers, a suitable DOS program is available for the easy setup of the AMIQ via the IEEE488 bus.*

## Power-Up Sequence, Interface Test

Preparation: ➢ Connect the AMIQ to the AC supply and switch the unit on.

Test: On power-up, the AMIQ performs a simple self-test. After this test has run successfully, the *ON* LED lights permanently and the unit is ready to accept commands via the interfaces.

If the *ON* LED is flashing, an error has occurred during the self-test. More detailed information on the error can be requested via `:SYST:ERR?` (see operating manual, chapters 5 and 6).

## IEC/IEEE-Bus Interface

Preparation: ➢ Connect the IEC/IEEE-bus interface of the AMIQ to that of the controller via the IEC/IEEE-bus cable.

Test: ➢ Send the character string '*IDN?<CR><NL>' from the controller to the AMIQ and read the answer string from the AMIQ.

The answer string should contain the following message:

*'ROHDE & SCHWARZ,AMIQ<Var>,<Ser_Nr>,<Firmware_Vers._Nr>'*

## RS232 Interface

Preparation: ➢ Connect the RS232 interface of AMIQ to that of the controller via the null-modem cable (see page 1.1, "Required Measuring Equipment").

➢ Set the RS232 interface of the controller to 8 data bits, 1 start bit, 1 stop bit, no parity bit, XON/XOFF handshake and 19200 baud.

Test: ➢ Send the character string '*IDN?<CR><NL>' from the controller to the AMIQ and read the answer string from the AMIQ.

The answer string should contain the following message:

*'ROHDE & SCHWARZ,AMIQ<Var>,<Ser_Nr>,<Firmware_Vers._Nr>'*

## Clock Generation

Preparation:
- Connect frequency counter to clock signal output of AMIQ.
  Select frequency measurement on frequency counter.

Commands:
- `*RST` — Preset
  `CLOCK 100.000000MHz` — For 100 MHz test
  `(CLOCK 10.000000Hz)` — For 10 Hz test
  `ARM` — Preparation for start
  `TRIG` — Start
  `SClock EXTFast` — Set to external CLOCK

Test:
- Measure frequency and compare with specifications in performance test report.

Testing the clock input (for Var. 03 and Var. 04 only):
- Connect Clock BNC female on the rear to the input.
- Connect REF output to the clock input via a BNC connecting cable.
  Next triggering of the wave causes the output to be controlled by the externally applied clock.
  After disconnecting the external clock input the output is stopped and the AMIQ signals an error message.

  Command for external CLK: `SCLock EXTFast` (see operating manual)

Note:
- The accuracy of the clock frequency at the clock signal output is determined by the internal 10 MHz reference frequency.
  Adjust reference frequency with the command `CAL:ROSC xxxx`
  (xxxx: value between 0 and 4095)
  Read calibration value with the command `CAL:ROSC?`

## External Reference Frequency

For adjustment of the internal reference oscillator, synchronization to an external 10 MHz reference frequency is checked. The reference frequency is supplied by the frequency counter. The frequency measured by the frequency counter at the 10 MHz REF output will thus be accurate to the last digit.

Preparation:
- Connect reference frequency output of frequency counter to REF input of AMIQ.
- Connect REF output of AMIQ to test input of frequency counter.
- Select frequency measurement on frequency counter.

Commands:
- `*RST`
  `ROSC:SOUR EXT`
  `ARM`
  `TRIG`

Test:
- Read frequency to check if reference PLL has locked.

  In locked condition, the reading is exactly 10 MHz.

## Level and Offset Calibration

The internal level and offset calibration for the I and Q outputs is performed automatically when activated by the corresponding control command. There are various calibration commands for offset, level and the I and Q channels.

Commands:

➢ `*RST`
`CAL:ALL?` `Calibration of level and offset for I and Q`

Test:

➢ Read message from AMIQ.
If calibration functions properly, AMIQ sends "0", in case of an error "1".
Information on the error source is obtained by reading the error queue.
(see operating manual, IEC/IEEE-bus control)

## Waveform Memory, Standard Sine Curve

Test principle:

➢ Programming of sine curve with commands sent to AMIQ

The amplitude stored in the AMIQ waveform memory corresponds to 1.0 FS (full scale). The frequency of the sinusoidal signal is determined by the number of samples per period and by the selected clock frequency. The samples available in the waveform memory must be a multiple of the samples needed for the period of the curve. For testing, the whole memory (4000000 samples) is filled, which takes up about 30 seconds.

***Sine frequency = clock frequency / samples(period)***

Preparation:

➢ Connect oscilloscope to I and Q outputs.

Control:

➢

```
*RST                          Preset
CLOCK 100.0MHz                Clock frequency (100 MHz)
TEST:SDR:WAV SINE             Sine curve
TEST:SDR:PER 10000            Samples per period (10000)
TEST:SDR:PHAS 0               Phase diff. between I and Q (0)
TEST:SDR:AMPL 32000           Sinewave amplitude (1 FS)
TEST:SDR:OFFS 32768           Sinewave offset (0 FS)
TEST:SDR:FILL 4000000         Waveform memory
                              (4000000 samples)
OUTP:I FIX                    Output I: fix mode
OUTP:Q FIX                    Output Q: fix mode
ARM                           Start of output
TRIG
```

Test:

➢ Check sine curve of I and Q outputs on oscilloscope:

frequency 10 kHz, amplitude 1 $V_{pp}$ with 50 Ω feed-through termination

## "Fix" Mode

In the *fix* mode, a fixed signal level is present at outputs I and Q which can be varied only by the fine adjustment function of AMIQ. The output level and amplitude balance are checked on a 1 kHz sinusoidal signal at the outputs without terminations. Inaccuracies introduced by the termination are thus avoided. The residual DC offset of the two channels is measured with terminations. It is assumed that the unit has been amplitude- and offset-calibrated (see page 1.3, section "Level and Offset Calibration").

If option AMIQ-B2 (Differential Outputs) is fitted the AMIQ's outputs must be set to „SINGLE" (UNBAL) mode to avoid additional errors due to a non-adjusted option.

➢ `OUTP:TYPE UNBAL`

### Output Level

Preparation: ➢ Connect AC voltmeter (RMS) to I or Q output without termination.
Resolution of voltmeter: min. 4-digit

Generation of 1 kHz sinusoidal signal at the I and Q outputs:

Commands: ➢

```
*RST                        Preset
CLOCK 10.0MHz               Clock frequency (10 MHz)
TEST:SDR:WAV SINE           Sine curve
TEST:SDR:PER 10000          Samples per period (10000)
TEST:SDR:PHAS 0             Phase diff. between I and Q (0)
TEST:SDR:AMPL 32000         Sinewave amplitude (1 FS)
TEST:SDR:OFFS 32768         Sinewave offset (0 FS)
TEST:SDR:FILL 10000         1 period in waveform memory
OUTP:I FIX                  Output I: fix mode
OUTP:Q FIX                  Output Q: fix mode
ARM                         Start of output
TRIG
```

Test: ➢ Measure output level of 1 kHz signal of I and Q channels and compare against specifications of test report.

### Level Difference

Preparation: Measurement to section "Output Level", page 1.5.

Test: ➢ Determine percentage difference between I and Q output levels.

***Level difference [%] = [(level I – level Q)/(level I)]*100%***

➢ Compare the resulting level difference against specifications of test report.

### Residual DC Offset

Preparation: ➢ Connect DC voltmeter with 50 Ω feed-through termination to I or Q output of AMIQ.

Resolution of DC voltmeter: min. 0.1 mV

Generation of 0 V DC signal (sinewave amplitude 0 FS) at I and Q outputs:

Commands: ➢

```
*RST                        Preset
CLOCK 10.0MHz               Clock frequency (10 MHz)
TEST:SDR:WAV SINE           DC curve
TEST:SDR:PER 10000          Samples per period (10000)
```

```
TEST:SDR:PHAS 0          Phase diff. between I and Q (0)
TEST:SDR:AMPL 00000      Sinewave amplitude (0 FS)
TEST:SDR:OFFS 32768      Sinewave offset (0 FS)
TEST:SDR:FILL 10000      1 period in waveform memory
OUTP:I FIX               Output I: fix mode
OUTP:Q FIX               Output Q: fix mode
ARM                      Start of output
TRIG
```

Test:

➢ Measure residual DC offset of I and Q channels and compare against specifications of test report.

***Note:*** *If the DC voltmeter provides accurate residual DC offset measurement with the AC voltage (1 kHz) present, the DC residual offset can be measured without reprogramming the waveform (setting of AMIQ as described in section "Output Level", page 1.5).*

## Spurious Free Dynamic Range (SFDR)

The spurious free dynamic range (SFDR) is that range of the spectrum of a signal under test which is free from harmonics or other spurious. It is normally specified in dB referred to the useful signal. In the case of D/A converters, SFDR is dependent on the clock frequency and the resolution and is a measure of the quality of a D/A converter. In measurements without anti-aliasing filter, SFDR is normally considered to be the range up to half the sample frequency (Nyquist/2), and this range is evaluated. Outside this range, aliasing products occur whose level may be considerably lower than the SFDR for reasons inherent in the system.

Preparation:

➢ Connect spectrum analyzer to I or Q output of AMIQ.

*Settings on spectrum analyzer:*

Start frequency 0 Hz
Stop frequency 5 MHz (Nyquist/2)
Reference level 3.0 dBm
Resolution bandwidth 1 kHz
Video bandwidth 3 kHz

Generation of 1 MHz sinewave signal at I and Q outputs:

Commands:

➢

```
*RST                     Preset
CLOCK 10.0MHz            Clock frequency (10 MHz)
TEST:SDR:WAV SINE        Sine curve
TEST:SDR:PER 10          Samples per period (10)
TEST:SDR:PHAS 0          Phase diff. between I and Q (0)
TEST:SDR:AMPL 32000      Amplitude (1 FS)
TEST:SDR:OFFS 32768      Offset (0 FS)
TEST:SDR:FILL 1000       100 periods in waveform memory
OUTP:I FIX               Output I: fix mode
OUTP:Q FIX               Output Q: fix mode
ARM                      Start of output
TRIG
```

Test:

➢ Determine SFDR on spectrum analyzer and compare against specifications of test report.

## "Variable" Mode

In this mode, the output level can be set in the range 0 to 1 V peak amplitude (into 50 Ω) separately for the I and Q channel. An electronic attenuator in the AMIQ allows a level variation of 20 dB. Further attenuation can be effected by means of a mechanical 20 dB or 40 dB stage.

### Output Level

Preparation: ➢ Connect AC voltmeter (RMS) to I or Q output without termination.
Resolution of voltmeter: min. 4-digit

Generation of 1 kHz sinusoidal signal with 1 V amplitude at I and Q outputs:

Commands: ➢

```
*RST                        Preset
CLOCK 10.0MHz               Clock frequency (10 MHz)
TEST:SDR:WAV SINE           Sine curve
TEST:SDR:PER 10000          Samples per period (10000)
TEST:SDR:PHAS 0             Phase diff. between I and Q (0)
TEST:SDR:AMPL 32000         Amplitude (1 FS)
TEST:SDR:OFFS 32768         Offset (0 FS)
TEST:SDR:FILL 10000         1 periode in waveform memory
OUTP:I VAR                  Output I: variable mode
OUTP:I:AMPL 1.0             I amplitude: Vp = 1 V
OUTP:Q VAR                  Output Q: variable mode
OUTP:Q:AMPL 1.0             Q amplitude: Vp = 1 V
ARM                         Start of output
TRIG
```

Test: ➢ Measure 1 V output level of 1 kHz signal for I and Q channels and compare against specifications of test report.

Commands: ➢

```
OUTP:I:AMPL 0.09999         I ampl.: Vp = 0.1 V (20 dB atten.)
OUTP:Q:AMPL 0.09999         Q ampl.: Vp = 0.1 V (20 dB atten.)
```

Test: ➢ Repeat measurement with 0.1 V output level of 1 kHz signal for I and Q channels and compare against specifications of test report.

Commands: ➢

```
OUTP:I:AMPL 0.009999        I ampl.: Vp = 0.01 V (40 dB atten.)
OUTP:Q:AMPL 0.009999        Q ampl.: Vp = 0.01 V (40 dB atten.)
```

Test: ➢ Repeat measurement with 0.01 V output level of 1 kHz signal for I and Q channels and compare against specifications of test report.

### Residual DC Offset

Preparation: ➢ Connect DC voltmeter with 50 Ω feed-through termination to I or Q output of AMIQ. Resolution of DC voltmeter: min. 0.1 mV

Generation of 0 V DC signal (sinewave amplitude 0 FS) at I and Q outputs:

Commands: ➢

```
*RST                        Preset
CLOCK 10.0MHz               Clock frequency (10 MHz)
TEST:SDR:WAV SINE           generate DC voltage
TEST:SDR:PER 10000          Samples per period (10000)
TEST:SDR:PHAS 0             Phase diff. between I and Q (0)
TEST:SDR:AMPL 00000         Amplitude (0 FS)
TEST:SDR:OFFS 32768         Offset (0 FS)
TEST:SDR:FILL 10000         1 period in waveform memory
OUTP:I VAR                  Output I: variable mode
OUTP:I:AMPL 1.0             I amplitude: 1 Vp
OUTP:Q VAR                  Output Q: variable mode
```

```
OUTP:Q:AMPL 1.0          Q amplitude: 1 Vp
ARM                      Start of output
TRIG
```

Test: ➢ Measure residual DC offset with 1 V level for I and Q channels and compare against specifications of test report.

***Note:*** *If the DC voltmeter provides accurate residual DC offset measurement with the AC voltage (1 kHz) present, the DC residual offset can be measured without reprogramming the waveform (setting of AMIQ as described in section "Output Level", page 1.7).*

## Spurious Free Dynamic Range (SFDR)

(cf. section "Spurious Free Dynamic Range (SFDR)", page 1.6)

Preparation: ➢ Connect spectrum analyzer to I or Q output of AMIQ.
*Settings on spectrum analyzer:*
Start frequency 0 Hz
Stop frequency 5 MHz (Nyquist/2)
Reference level 3.0 dBm
Resolution bandwidth 1 kHz
Video bandwidth 3 kHz

Generation of 1 MHz sinusoidal signal at I and Q outputs:

Commands: ➢

```
*RST                     Preset
CLOCK 10.0MHz            Clock frequency (10 MHz)
TEST:SDR:WAV SINE        Sine curve
TEST:SDR:PER 10          Samples per period (10)
TEST:SDR:PHAS 0          Phase diff. between I and Q (0)
TEST:SDR:AMPL 32000      Amplitude (1 FS)
TEST:SDR:OFFS 32768      Offset (0 FS)
TEST:SDR:FILL 1000       100 periods in waveform memory
OUTP:I VAR               Output I: variable mode
OUTP:I:AMPL 0.1          I amplitude: 0.1 Vp
OUTP:Q VAR               Output Q: variable mode
OUTP:Q:AMPL 0.1          Q amplitude: 0.1 Vp
ARM                      Start of output
TRIG
```

Test: ➢ Determine SFDR on spectrum analyzer and compare against specifications of test report.

Spurs Free Dynamic Range Spec. -50dB minimum

## Delay between I and Q Channel (Skew)

The skew is determined by measuring the delay of the two outputs with a suitable counter. To this end, a squarewave signal is to be programmed on both channels of AMIQ.
It should be noted that that normally the counter itself introduces a delay error between test inputs A and B. This error is to be taken into account.
Identical coax cables should be used for connecting the AMIQ outputs to the counter inputs.

Preparation: ➢ Connect counter inputs A and B with I and Q outputs of AMIQ using two identical cables.

*Settings on counter:*

Time A - B
Trigger level auto
Input impedance 50 Ω
Input coupling DC
Slope rising

Generation of 5 MHz squarewave signal at I and Q outputs:

Commands: ➢

```
*RST                    Preset
CLOCK 10.0MHz           Clock frequency (10 MHz)
TEST:SDR:WAV SQUARE     Squarewave
TEST:SDR:PER 2          Samples per period (2)
TEST:SDR:PHAS 0         Phase diff. between I and Q (0)
TEST:SDR:AMPL 32000     Amplitude (1 FS)
TEST:SDR:OFFS 32768     Offset (0 FS)
TEST:SDR:FILL 1000      500 periods in waveform memory
OUTP:I FIX              Output I: fix mode
OUTP:Q FIX              Output Q: fix mode
OUTP:FILT OFF           Filter off
ARM                     Start of output
TRIG
```

Test: ➢ Determine skew between channels I and Q. To this end, interchange the test cables on the I and Q outputs of AMIQ. The difference in delay measured after interchanging the cables corresponds to the skew of AMIQ. Compare this value against specifications of test report.

## Internal Filters

AMIQ has two internal lowpass filters with cutoff frequencies 2.5 MHz and 25 MHz for each channel. These filters are adjusted in production for optimum transmission characteristics as well as amplitude balance and group delay by means of special instruments. Readjustment of the filters with the appropriate instruments is required only in case of repair.

In this test, the filters are checked for proper functioning by measuring the squarewave rise time.

Preparation: ➢ Connect oscilloscope to I and Q outputs.

Generation of 1 MHz squarewave signal at I and Q outputs:

Commands: ➢

```
*RST                    Preset
CLOCK 10.0MHz           Clock frequency (10 MHz)
TEST:SDR:WAV SQUARE     Squarewave
TEST:SDR:PER 10         Samples per period (10)
TEST:SDR:PHAS 0         Phase diff. between I and Q (0)
TEST:SDR:AMPL 32000     Amplitude (1 FS)
TEST:SDR:OFFS 32768     Offset (0 FS)
TEST:SDR:FILL 1000      100 periods in waveform memory
OUTP:I FIX              Output I: fix mode
OUTP:Q FIX              Output Q: fix mode
OUTP:FILT OFF           Filter off
(OUTP:FILT 2.5MHz       Filter 2.5 MHz)
(OUTP:FILT 25MHz        Filter 25 MHz)
ARM                     Start of output
TRIG
```

Test: ➢ Check rise time of squarewave signals on I and Q outputs on oscilloscope for the various filter settings.

The rise times need not be measured exactly. They merely indicate the various filter settings:

The following typical rise times should be obtained:

| | |
|---|---|
| with filter off | 5 ns |
| with filter 25 MHz | 15 ns |
| with filter 2.5 MHz | 150 ns |

## External Trigger

To check the external trigger, a trigger generator is required which supplies a TTL control signal as trigger signal.
In the gate mode, the signals at the I and Q outputs are switched on and off by the trigger signal. This function can easily be checked on the oscilloscope.

Preparation: ➢ Connect oscilloscope to I and Q outputs.
Apply 1 kHz TTL trigger signal to trigger input of AMIQ.

Generation of 100 kHz sinusoidal signal at I and Q outputs:

Commands:

```
➢ *RST                      Preset
  CLOCK 10.0MHz             Clock frequency (10 MHz)
  TEST:SDR:WAV SINE         Sinewave
  TEST:SDR:PER 100          Samples per period (100)
  TEST:SDR:PHAS 0           Phase diff. between I and Q (0)
  TEST:SDR:AMPL 32000       Amplitude (1 FS)
  TEST:SDR:OFFS 32768       Offset (0 FS)
  TEST:SDR:FILL 10000       100 periods in waveform memory
  OUTP:I FIX                Output I: fix mode
  OUTP:Q FIX                Output Q: fix mode
  TRIG:MODE:GAT             Trigger mode: gate
  TRIG:SLOP POS             Trigger polarity
  TRIG:SOUR EXT             Trigger source: external
  ARM                       Start of output
```

Test: ➢ Check I and Q output signals (100 kHz sinewave) of AMIQ on oscilloscope. The output signals are switched on and off synchronously with the external trigger signal.

## Marker Outputs

The marker outputs are controlled by programming the two LSBs of the 16-bit waveform memory of the I and Q channel. These bits are automatically programmed in programming the waveforms (see above) for the various tests for compliance with specifications. For testing the marker outputs it is sufficient to check the four marker outputs by means of an oscilloscope. A pulse train must be present at each of the four marker outputs.

Preparation: ➢ Connect oscilloscope to marker outputs 1 to 4 one after the other using a 50 Ω termination.

Generation of 1 kHz sinusoidal signal at the I and Q outputs:

Commands:

```
➢ *RST                      Preset
  CLOCK 10.0MHz             Clock frequency (10 MHz)
  TEST:SDR:WAV SINE         Sinewave
  TEST:SDR:PER 10000        Samples per period (10000)
  TEST:SDR:PHAS 0           Phase diff. between I and Q (0)
  TEST:SDR:AMPL 32000       Amplitude (1 FS)
  TEST:SDR:OFFS 32768       Offset (0 FS)
  TEST:SDR:FILL 40000       4 periods in waveform memory
  OUTP:I FIX                Output I: fix mode
  OUTP:Q FIX                Output Q: fix mode
  ARM                       Start of output
  TRIG
  OUTP:MARK1 ON             switch on markers 1 to 4
  OUTP:MARK2 ON
  OUTP:MARK3 ON
  OUTP:MARK4 ON
```

Test:

➢ Check pulse train and pulse amplitude for each marker output.
Pulse amplitude at 50 Ω feed-through termination: typ. 2 V
Pulse period (corresponding to clock frequency): 100 ns

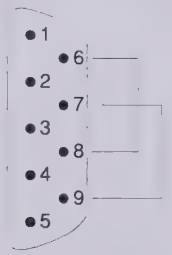
## BER Interface

The BER interface is used for performing bit error rate measurements by means of the AMIQ. For these measurements, the software option AMIQ-B1 is required.

The interface is to be checked irrespective of whether this option is implemented or not. The inputs and outputs of the interface are interconnected via an adapter and checked for proper functioning.

Preparation:

➢ Prepare adapter (SUB-D, 9-pin, female) as shown below and plug onto BER interface of the instrument.




SUB-D connector female

Commands:

```
➢ *RST                      Preset
  TEST:BERT?                Test BER interface
```

Check:

If the BER interface is functioning properly, "0" is returned by AMIQ.

If an error is found, "1" is returned.

More detailed information on the error can be queried with `:SYST:ERR?`.

## Bias Voltage and Offset (with Built-in AMIQ-B2 Option)

The operating point of a DUT can be adjusted by superimposing a DC voltage upon the output signal. This requires option AMIQ-B2 (Differential Outputs) to be fitted. As the residual offset voltage of AMIQ-B2 can not be compensated for during calibration, it must be tested separately.

Preparation: ➢ Connect DC voltmeter to all four output sockets in succession.

Commands: ➢
```
:OUTP:OIMP R50
:OUTP:I: AMPL:BAL 0V
:OUTP:Q: AMPL:BAL 0V
:OUTP:TYPE BAL
:OUTP:I:BIAS -2.5V
:OUTP:I:BIAS 2.5V
:OUTP:Q:BIAS -2.5V
:OUTP:Q:BIAS 2.5V
:OUTP:I:BIAS 0V
:OUTP:Q:BIAS 0V
```

Check: ➢ If the option operates correctly the voltages of –2.5 V and +2.5 V must be measured at the outputs on open circuit. The non-inverting and the corresponding inverting outputs show the same voltage, I and Q can be set independent from each other (tolerance ±10 mV). The last two commands set a bias voltage of 0 V at all four outputs. The offset volage measured now must not exceed ±0.1 mV.

## Digital I/Q Output (with Built-in AMIQ-B3)

The AMIQ-B3 option is provided to supply the digital signals of up to 16 bits in width required for the control of circuits and devices with digital inputs (e.g., digital/analog converters). Besides, the option provides a supply voltage (+3.3 V or +5 V) and clock signals at the digital output of the AMIQ.

Preparation:➢ Adapt an appropriate connector to the 68-pin DIGITAL OUTPUT socket. Connect pins 66 to 67 to prevent all outputs from being high-impedance.
Pins 67 and 68 are used to select the voltage supplied at the digital output (+3.3 V or +5 V) and, thus, also the amplitude of the digital signals.

Control: ➢
```
TEST:ABO:DIG_OUT_EN ON    (Digital outputs active)
TEST:SDR:DAC 43690,43690  (output AAAA hex)
TEST:SDR:DAC 21845,21845  (output 5555 hex)
MMEM:LOAD, 'SINE.WV'      (output sinewave)
```

Test: ➢ Pin 67 connected to pin 68: +3.3 V at pin 67
Pin 68 not connected: +5.0 V at pin 67
Measure the supply voltage applied at pin 67 and compare against specifications of performance test report.

The data outputs are statically checked by alternately outputting two test patterns at the individual data lines (I0... I15, Q0... Q15).

With output of
`5555(0101...)` the outputs `I/Q 0, 2, 4, are` high
the outputs `I/Q 1, 3, 5, are` low
`AAAA(1010...)` the outputs `I/Q 0, 2, 4, are` low
the outputs `I/Q 1, 3, 5, are` high

After loading and starting 'SINE.WV' the frequency applied to the two clock outputs corresponds to the frequency applied at the CLOCK output.

The clock outputs (pins 33 and 34) are tested by comparing their clock frequencies to the CLOCK output on the rear of AMIQ.

# Test Report

| ROHDE & SCHWARZ | I/Q Modulation Generator AMIQ | 1110.2003.02 |
|---|---|---|
| Serial No.: | | |
| Test engineer: | | |
| Date: | | |
| Signature: | | |

**Table 1-2 Test Report**

| Item No. | Characteristic | Measuremt. to page | Min. | Actual | Max. | Unit |
|---|---|---|---|---|---|---|
| 1 | Power-up sequence | 1.2 | ------ | | ------ | ------ |
| 2 | IEC625 / IEEE488 interface | 1.2 | ------ | | ------ | ------ |
| 3 | RS232 interface | 1.2 | ------ | | ------ | ------ |
| 4 | Clock generation<br>Frequency 100 MHz<br>Frequency 10 Hz<br>external | 1.3 | <br>99.99900<br>9.999900<br>------ | | <br>100.001<br>10.0001<br>------ | <br>MHz<br>Hz<br>------ |
| 5 | External synchronization | 1.3 | ------ | | ------ | ------ |
| 6 | Level and offset calibration | 1.3 | ------ | | ------ | ------ |
| 7 | Waveform memory, sinewave | 1.4 | ------ | | ------ | ------ |
| 8 | Fix mode<br>Output level, I channel<br>Output level, Q channel | 1.5 | <br>0.7000<br>0.7000 | | <br>0.7142<br>0.7142 | <br>$V_{rms}$<br>$V_{rms}$ |
| 9 | Level difference (I-Q) | 1.5 | - 0.2 | | + 0.2 | % |
| 10 | Residual DC offset, I channel<br>Residual DC offset, Q channel | 1.5 | - 0.5<br>- 0.5 | | + 0.5<br>+ 0.5 | mV<br>mV |
| 11 | SFDR, I channel<br>SFDR, Q channel | 1.6 | 70<br>70 | | ------<br>------ | dB<br>dB |
| 12 | Variable mode<br>Output level, I channel 1V<br>Output level, Q channel | 1.7 | <br>1.386<br>1.386 | | <br>1.443<br>1.443 | <br>$V_{rms}$<br>$V_{rms}$ |
| | Output level, I channel 0.1V<br>Output level, Q channel | 1.7 | 0.1386<br>0.1386 | | 0.1443<br>0.1443 | $V_{rms}$<br>$V_{rms}$ |
| | Output level, I channel 0.01V<br>Output level, Q channel | 1.7 | 0.01386<br>0.01386 | | 0.01443<br>0.01443 | $V_{rms}$<br>$V_{rms}$ |
| 13 | Residual DC offset, I channel<br>Residual DC offset, Q channel | 1.7 | - 5<br>- 5 | | + 5<br>+ 5 | mV<br>mV |
| 14 | SFDR, I channel<br>SFDR, Q channel | 1.8 | 50<br>50 | | ------<br>------ | dB<br>dB |
| 15 | Skew, I-Q channel | 1.8 | - 0.5 | | + 0.5 | ns |

| Item No. | Characteristic | Measuremt. to page | Min. | Actual | Max. | Unit |
|---|---|---|---|---|---|---|
| 16 | Internal filters<br>off<br>2.5 MHz<br>25 MHz | 1.9 | ------<br>------<br>------ | | ------<br>------<br>------ | ------<br>------<br>------ |
| 17 | External trigger | 1.10 | ------ | | ------ | ------ |
| 18 | Marker outputs<br>Marker 1<br>Marker 2<br>Marker 3<br>Marker 4 | 1.10 | <br>------<br>------<br>------<br>------ | | <br>------<br>------<br>------<br>------ | <br>------<br>------<br>------<br>------ |
| 19 | BER interface | 1.11 | ------ | | ------ | ------ |
| **If option AMIQ-B2 (Differential Ouputs) is fitted the following test points are added:** | | | | | | |
| 20 | Differential Outputs, residual offset<br>Output I<br>Output $\overline{I}$<br>Output Q<br>Output $\overline{Q}$ | 1.11 | <br>–0.1<br>–0.1<br>–0.1<br>–0.1 | | <br>+0.1<br>+0.1<br>+0.1<br>+0.1 | <br>V<br>V<br>V<br>V |
| 21 | Setting range for bias voltage<br>Output I and $\overline{I}$<br>Output I and $\overline{I}$<br>Output Q and $\overline{Q}$<br>Output Q and $\overline{Q}$ | 1.11 | <br>–2.51<br>+2.49<br>–2.51<br>+2.49 | | <br>–2.49<br>+2.51<br>–2.49<br>+2.51 | <br>V<br>V<br>V<br>V |
| **If option AMIQ-B3 („Digital I/Q Output“) is fitted, the following test points are added:** | | | | | | |
| 22 | Ext. supply voltage<br>+3.3 V rated<br>+5 V rated | 1.13 | <br>+3,0<br>+4.5 | | <br>+3.5<br>+5.5 | <br>V<br>V |
| 23 | Data outputs<br>5555<br>AAAA | 1.13 | <br>- - -<br>- - - | | <br>- - -<br>- - - | |
| 24 | Clock outputs | 1.13 | - - - | | - - - | |

# 2 Adjustment

This chapter describes the filter and I-Q adjustments of AMIQ including the adjustment of option AMIQ-B2 (if fitted) for the purpose of restoring compliance with specifications.

An overview of the I-Q adjustment facilities of AMIQ will be found in chapter four of the operating manual in the form of a simplified block diagram.

## Required Measuring Equipment

Table 2-1 Measuring Equipment for Adjustment of AMIQ

| Item | Instrument/ equipment | Required characteristics | Suitable unit | R & S Order No. | Described on page |
|---|---|---|---|---|---|
| 1 | Vector network analyzer | 500 kHz to 20 MHz | ZVRE, basic unit<br>SWR bridges 50 Ω, passive, ZVR-A55<br>Step attenuator, receiver, 2 ports, ZVR-B24 | 1043.0009.50<br>1043.7755.20<br>1044.0025.22 | 2.1<br>2.2 |
| 2 | 2 N/SMB test cables | | See "Conversion" in section "Preparation of Network Analyzer" | | 2.1 |
| 3 | SMB calibration kit | Through, open, short, match | See "Calibration" in section "Preparation of Network Analyzer" | | 2.1 |
| 4 | Frequency counter | Function TIME A-B, resolution 10 ps | Philips PM6680 | | 2.6 |
| 5 | DC voltmeter | ±5 V, resolution 0,1 mV | UDS5 | 0349.1510.02 | 2.8 |

## Preparation of Network Analyzer

Conversion:

➢ Adapt network analyzer from N to SMB connectors.

The inputs and outputs of the filters incorporated in AMIQ are accessible via SMB connectors on the IQ_ANALOG/DIGITAL_UNIT module. For this reason, the two test ports of the network analyzer, too, must be adapted from N or BNC to SMB connectors by means of adapter cables.

Calibration:

➢ Calibrate network analyzer for SMB connectors:

Before measurements are performed, the network analyzer must be calibrated for the SMB connectors. For R&S Network Analyzer ZVRE, this is done by means of the **TOSM** procedure (**t**hrough, **o**pen, **s**hort, **m**atch).

**Through:** The cables of ports 1 and 2 are connected with each other.
**Open:** The cable of port 1 or 2 is open.
**Short:** The cable of port 1 or 2 is short-circuited.
**Match:** The cable of port 1 or 2 is terminated with 50 Ω.

By this calibration, all measurement uncertainties involved in the test setup consisting of the network analyzer and the SMB cables are taken into account. The subsequent measurement reveals the frequency response of the DUT connected between the SMB cables.

For calibration, an SMB calibration kit is required:

| | |
|---|---|
| Through | SMB connector/connector adapter (R&S Order No. 0017.6259) |
| Open | SMB cable is open |
| Short | SMB connector, short-circuited with wire |
| Match | 50 Ω termination (R&S Order No. 0521.9401, female) + SMB connector/connector adapter or SMB connector terminated with 50 Ω, 0.1%. |

## Adjustment of Filters

Preparation:

➢ Select transmission measurement S21 on network analyzer (see section "Adjustment of 25 MHz Filters"). Connect output (port 1 on ZVRE) to input of filter on IQ board (X13, X8, X17, X26). Connect output of filter (X15, X6, X23, X24) to input (port 2 on ZVRE).

Commands:

➢

```
*RST                    Preset
CLOCK 10.0MHz           Clock frequency (10 MHz)
TEST:SDR:WAV Sine       Curve (DC)
TEST:SDR:PER 4          Samples per period (4)
TEST:SDR:PHAS 0         Phase diff. between I and Q (0)
TEST:SDR:AMPL 0000      Amplitude (0 FS)
TEST:SDR:OFFS 32768     Offset (0 FS)
TEST:SDR:FILL 1000      250 periods in waveform memory
OUTP:I FIX              Output I: fix mode
OUTP:Q FIX              Output Q: fix mode
OUTP:FILT OFF           Filter off
ARM                     Start of output
TRIG
```

***Notes:*** *The IQ_ANALOG/DIGITAL_UNIT module must be fitted in AMIQ since the intermediate panel acts like a shielding cover on the solder side.*

*The shielding covers on the component side have an effect in adjustment. It is sufficient if the covers rest on the shielding panels during adjustment; they need not be screwed on.*

*Only non-metallic tools may be used for adjustment.*

### Adjustment of 25 MHz Filters

The passband of the filters is adjusted for flat frequency response of amplitude and group delay.

To reduce the delay and magnitude errors of the filters to a minimum, both channels must be adjusted in each case. First the I channel filter is to be adjusted. The frequency response curves are stored. Then the Q channel filter is adjusted. The frequency response of the two filters should be as identical as possible.

***Note:*** *Adjustment of the filters is required only when a component in the signal path of the filters has been replaced.*

Preparation:

➢ Settings on network analyzer:

| | |
|---|---|
| SWEEP | LOG SWEEP |
| START | 500 kHz |
| STOP | 50 MHz |
| IF BANDWIDTH | 1 kHz |
| NUMBER OF POINTS | 401 |
| | |
| CH1: | |
| MEAS | S21 FWD TRANS |
| FORMAT | MAGNITUDE |
| SCALE - MAX VALUE | +0.25 dB |
| SCALE - MIN VALUE | –0.25 dB |
| | |
| CH2: | |
| MEAS | S21 FWD TRANS |
| FORMAT | GROUP DELAY |
| SCALE - MAX VALUE | 50 ns |
| SCALE - MIN VALUE | 45 ns |
| | |
| STEP APERTURE | 10 |
| TRACE - SMOOTHING | ON |
| TRACE - SMOOTHING APERTURE | 5% |
| Generator level | –10 dBm |
| Attenuator on PORT2 | 10 dB |

➢ Carry out calibration.

## Adjustment of I Filter

Connection:

➢ Connect I filter:

➢ Connect port 1 of network analyzer to X13 and port 2 to X15.

Adjustment:

➢ Magnitude (MAG):
Use **C190** to adjust for flat frequency response.
Tolerance: ±0.05 dB up to 20 MHz
Reference: value at 500 kHz, typically –0.025 dB

➢ Group delay (DLY):
Use **C189** to adjust for flat frequency response in the range 1 MHz to approx. 7 MHz.
Use **L79** to adjust for flat frequency response up to 20 MHz. Readjust with **C189**.

Tolerance:

±250 ps from 1 MHz to 20 MHz
Reference: value at 1 MHz, typically 48 ns

➢ Readjust magnitude (MAG) with **C190**.

***Note:*** *The typical value of 48 ns at 1 MHz should be attained. If this is not the case, it may not be possible to adjust the Q filter.*

➢ Store and display the two curves.

## Adjustment of Q Filter

Connection:

- ➢ Connect Q filter:
- ➢ Connect port 1 of network analyzer to X17 and port 2 to X23.

Adjustment:

- ➢ Magnitude (MAG):
  Use **C192** to adjust for flat frequency response.
  Tolerance: ±0.05 dB up to 20 MHz
  Reference: value at 500 kHz, typically -0.025 dB

The difference between I-MAG and Q-MAG should be as small as possible. A small vertical offset (ie a constant difference in gain) between the curves is permissible as absolute level accuracy is subsequently corrected by the software.

- ➢ Group delay (DLY):
  Use **C191** to adjust for flat frequency response in the range 1 MHz to approx. 7 MHz.
  Use **L80** to adjust for flat frequency response up to 20 MHz. Readjust with **C191**.

Tolerance: ±250 ps from 1 MHz to 20 MHz. Reference: value at 1 MHz.

- ➢ Readjust magnitude (MAG) with **C192**.
  The difference between I-DLY and Q-DLY should be as small as possible.

The I-DLY and Q-DLY values should be identical in the range 1 MHz to 10 MHz. In this case, a small vertical offset (difference in group delay) between the two channels is undesirable since this offset cannot be subsequently corrected by the software.

## Adjustment of 2.5 MHz Filters

The passband of the filters is adjusted for flat frequency response of amplitude and group delay.

To reduce the delay and magnitude errors of the filters to a minimum, both channels must be adjusted in each case. First the I channel filter is to be adjusted. The frequency response curves are stored. Then the Q channel filter is adjusted. The frequency response of the two filters should be as identical as possible.

***Note:*** *Adjustment of the filters is required only when a component in the signal path of the filters has been replaced.*

Preparation:

- ➢ Settings on network analyzer:

| | |
|---|---|
| SWEEP | LOG SWEEP |
| START | 500 kHz |
| STOP | 5 MHz |
| IF BANDWIDTH | 1 kHz |
| NUMBER OF POINTS | 401 |
| | |
| CH1: | |
| MEAS | S21 FWD TRANS |
| FORMAT | MAGNITUDE |
| SCALE - MAX VALUE | +0.25 dB |
| SCALE - MIN VALUE | –0.25 dB |
| | |
| CH2: | |
| MEAS | S21 FWD TRANS |
| FORMAT | GROUP DELAY |
| SCALE - MAX VALUE | 50 ns |
| SCALE - MIN VALUE | 45 ns |
| | |
| STEP APERTURE | 10 |

| | |
|---|---|
| TRACE - SMOOTHING | ON |
| TRACE - SMOOTHING APERTURE | 5% |
| Generator level | –10 dBm |
| Attenuator on PORT2 | 10 dB |

➢ Carry out calibration.

## Adjustment of I Filter

Connection

➢ Connect I filter:

➢ Connect port 1 of network analyzer to X8 and port 2 to X6.

Adjustment:

➢ Magnitude (MAG):
Use **C241** to adjust for flat frequency response.
Tolerance: ±0.05 dB up to 2 MHz
Reference: value at 500 kHz, typically -0.025 dB

➢ Group delay (DLY):
Use **C376** to adjust for flat frequency response from approx. 700 kHz to 1 MHz.
Use **L9** to adjust for flat frequency response up to 2 MHz.
Readjust with **C376** for frequencies <1 MHz.

Tolerance: ±2.5 ns up to 2 MHz. Reference: value at 800 kHz, typically 410 ns

➢ If necessary, readjust magnitude (MAG) with **C241**.

***Note:*** *The typical value of 410 ns at 800 kHz should be attained. If this is not the case, it may not be possible to adjust the Q filter.*

➢ Store and display the two curves.

## Adjustment of Q Filter:

Connection:

➢ Connect Q filter:

➢ Connect port 1 of network analyzer to X26 and port 2 to X24.

Adjustment:

➢ Magnitude (MAG):
Use **C242** to adjust for flat frequency response.
Tolerance: ±0.05 dB up to 2 MHz
Reference: value at 500 kHz, typically -0.025 dB

The difference between I-MAG and Q-MAG should be as small as possible. A small vertical offset (ie a constant difference in gain) between the curves is permissible as absolute level accuracy is subsequently corrected by the software.

➢ Group delay (DLY):
Use **C377** to adjust for flat frequency response from approx. 700 kHz to 1 MHz.
Use **L10** to adjust for flat frequency response up to 2 MHz.
Readjust with **C377** for frequencies <1 MHz.

Tolerance: ±2.5 ns up to 2 MHz. Reference: value at 800 kHz

➢ If necessary, readjust magnitude (MAG) with **C242**.

The difference between I-DLY and Q-DLY should be as small as possible.

The I-DLY and Q-DLY values should be identical in the range 800 kHz to 1 MHz. In this case, a small vertical offset (difference in group delay) between the two channels is undesirable since this offset cannot be subsequently corrected by the software.

# I/Q Adjustment

## I/Q Skew Adjustment

Two tunable RC elements in AMIQ make it possible to shift the DAC clock edges of the I and Q channels relative to each other (see circuit diagram, sheet 10). This allows a variation in delay between the output signal of the I channel and that of the Q channel.

The delay can be varied by the *Skew* user correction function (command :CORR:SKEW, see operating manual, chapter 4, section "I/Q Adjustment"). With this function, the capacitance of the RC elements is varied by means of a D/A converter and varactors. Skew adjustment is to be made with R756 such that minimum skew is obtained at the output of AMIQ when the user correction is set to zero.

Adjustment is made using a programmed squarewave signal at a clock frequency of 50 MHz. It should be noted that the counter normally has a constant inherent error. This error can be determined by applying identical signals to inputs A and B.

Preparation:

➢ Connect counter inputs A and B to the I and Q outputs of AMIQ using two identical cables.

*Settings on counter:*

| | |
|---|---|
| Time | A - B |
| Trigger level | Auto |
| Input impedance | 50 Ω |
| Input coupling | DC |
| Slope | Rising |

Generation of 12.5 MHz squarewave signal at I and Q outputs:

The *RST (Preset) command sets all user correction values to zero.

Commands:

➢

```
*RST                        Preset
CLOCK 50.0MHz               Clock frequency (50 MHz)
TEST:SDR:WAV SQUARE         Squarewave
TEST:SDR:PER 4              Samples per period (4)
TEST:SDR:PHAS 0             Phase diff. between I and Q (0)
TEST:SDR:AMPL 32000         Amplitude (1 FS)
TEST:SDR:OFFS 32768         Offset (0 FS)
TEST:SDR:FILL 1000          250 periods in waveform memory
OUTP:I FIX                  Output I: fix mode
OUTP:Q FIX                  Output Q: fix mode
OUTP:TYPE UNBAL             Outputs to unbalanced mode
OUTP:FILT OFF               Filter off
ARM                         Start of output
TRIG
```

Adjustment:

➢ Use **R756** to adjust the skew between the I and Q channels so that the measured skew between the I and Q channels changes only minimally when the cables at the AMIQ outputs are interchanged.

The absolute reading is dependent on the delay of the counter and not relevant in the measurement.

Tolerance:

➢ Maximum variation of measured delay after interchanging I and Q channels:
+/- 0.1 ns

## I/Q Amplitude and Offset Adjustment

The amplitude and residual offset voltages for the I and Q channels are automatically adjusted in AMIQ after activating the corresponding commands.

In adjustment, the DC voltage at the I and Q outputs is measured using a high-precision 16-bit A/D converter, and the amplitude and the residual offset are adjusted by means of electronic controls in AMIQ. In amplitude adjustment, the waveform D/A converter is programmed with the DC voltage value that exactly corresponds to the full-scale peak amplitude value of the D/A converter. Analogously, to minimize the residual offset, a zero line is programmed for the waveform D/A converter.

In automatic adjustment, offset and gain errors of the filters are adjusted too. Any external filters connected are included in the adjustment.

The following control commands are available for automatic adjustment:

Commands:

| | |
|---|---|
| ➢ `CAL:ALL?` | `Amplitude and offset adjustment for I and Q` |
| `CAL:AMPL?` | `Amplitude adjustment for I and Q` |
| `CAL:AMPL:I?` | `Amplitude adjustment for I` |
| `CAL:AMPL:Q` | `Amplitude adjustment for Q` |
| `CAL:OFFS?` | `Offset adjustment for I and Q` |
| `CAL:OFFS:I?` | `Offset adjustment for I` |
| `CAL:OFFS:Q` | `Offset adjustment for Q` |

If one of these operations is carried out error-free, "0" is returned. If an error occurs, a value unequal to 0 is returned (see chapter 6 of operating manual).

The correction values thus determined for amplitude and offset are stored in the EEPROM of AMIQ. The values are overwritten when automatic adjustment is activated again.

## Adjustment of Measurement Accuracy of Internal A/D Converter

The internal 16-bit A/D converter for automatic amplitude and offset adjustment is operated with a precision reference voltage so that normally no correction of measured values is required. A new correction factor can be entered in case of repair and for increasing measurement accuracy. The results obtained with the internal converter are then multiplied by this factor.

The internal A/D converter has a resolution of approx. 76 µV. The correction factor should be changed only if a high-precision, calibrated AC voltmeter is available for subsequent amplitude measurement. If such a voltmeter is available, the output amplitude of AMIQ can be accurately adjusted to the nominal value by entering the correction factor.

To avoid measurement errors resulting from inaccurate termination, the output amplitude is measured in open-circuit condition (1 kHz).

Preparation: ➢ Connect I or Q output of AMIQ to AC voltmeter (do not use a termination).

Generation of 1 kHz sinusoidal signal at I and Q outputs:

The *RST (Preset) command sets all user correction values to zero.

Commands:

➢ `*RST` Preset
`CLOCK 10.0MHz` Clock frequency
`TEST:SDR:WAV SINE` Sinewave
`TEST:SDR:PER 10000` Samples per period
`TEST:SDR:PHAS 0` Phase diff. between I and Q (0)
`TEST:SDR:AMPL 32000` Amplitude (1 FS)
`TEST:SDR:OFFS 32768` Offset (0 FS)
`TEST:SDR:FILL 40000` 4 periods in waveform memory
`OUTP:I FIX` Output I: fix mode
`OUTP:Q FIX` Output Q: fix mode
`OUTP:FILT OFF` Filter off
`ARM` Start of output
`TRIG`

Amplitude adjustment:
`CAL:DIAG 1.000` Correction factor for A/D converter
`CAL:AMPL?` I and Q amplitude adjustment
`CAL:DIAG 1.xxx` New correction factor
`CAL:AMPL?` Readjustment of amplitude

Adjustment:

➢ Measure amplitude of sinusoidal signal (1 kHz) and determine deviation from nominal value. From the deviation, determine correction factor for A/D converter. Values above 1 will decrease the amplitude, values below 1 will increase the amplitude.

➢ Repeat automatic adjustment of amplitude and measure amplitude. If the result does not agree with the nominal value of $V_{rms}$ = 0.7071 V, the procedure can be repeated.

Note:

➢ If the correction factor is changed by the maximum possible amount (correction factors between 0.9 and 1.1 are permissible), internal amplitude adjustment may no longer be possible. AMIQ will send a corresponding error message in response to a query.

## Offset Adjustment for Option AMIQ-B2

The AMIQ's internal offset adjustment performed during calibration affects only the two outputs of the I/Q board. The outputs of option AMIQ-B2 must therefore be individually adjusted to zero with the potentiometers R1, R2, R3 and R4.

➢ Signal inputs of option 0 V, 50 Ω
`(:OUTP:OIMP R50)`
`(:OUTP:I:AMPL:BAL 0V)`
`(:OUTP:Q:AMPL:BAL 0V)`

➢ Set I/Q outputs to *balanced* mode `(:OUTP:TYPE BAL)`

➢ Activate outputs (*var* mode) `(:OUTP:I VAR)`, `(:OUTP:Q VAR)`

➢ Set bias voltages to zero
`(:OUTP:I:BIAS 0V)`
`(:OUTP:Q:BIAS 0V)`

➢ Connect DC voltmeter to the outputs I, $\overline{I}$, Q and $\overline{Q}$ successively and adjust DC voltage to 0 V (EMF) using the potentiometers R1, R2, R3 and R4.

Tolerance: 0 V ± 0.1 mV

# Diagnosis

AMIQ incorporates a diagnostic function to facilitate troubleshooting. In this process, the internal A/D converter is connected to 16 different test points via a multiplexer. Measured values are output via the interface.
The individual functions of AMIQ can then be checked by means of the circuit diagram.

| Test Points | | | | |
|---|---|---|---|---|
| **No. <n>** | **Measurement function** | **Division factor** | **Sheet of circuit diagram** | **Value/Range** |
| 0 | Ground reference | | 27 | 0 V |
| 1 | $V_{ref}$ for A/D converter | (1/2 * REF 2.5 V) | 27 | 1.25 V |
| 2 | $V_{ref}$ for adjustment DACs | | 26 | 1.2 V |
| 3 | 10 MHz VTCXO voltage | (1/2 * V-VTCXO) | 19 | 0 to 2.5 V |
| 4 | VCO control voltage | (1/10 * V-VCO) | 20 | 0 to 1.8 V |
| 5 | I DAC, output | | 12 | –1 V to +1 V |
| 6 | Q DAC, output | | 15 | –1 V to +1 V |
| 7 | External I filter, input | | 13 | –1 V to +1 V |
| 8 | External Q filter, input | | 16 | –1 V to +1 V |
| 9 | I amplitude variation, output | | 14 | –2 V to +2 V |
| 10 | Q amplitude variation, output | | 17 | –2 V to +2 V |
| 11 | I output, DC | | 14 | –1 V to +1 V (fix)<br>–2 V to +2 V (var) |
| 12 | I RF amplitude, RF detector | | 14 | 0 V to +1 V (fix)<br>0 V to +2 V (var) |
| 13 | Q output, DC | | 17 | –1 V to +1 V (fix)<br>–2 V to +2 V (var) |
| 14 | Q RF amplitude, RF detector | | 17 | 0 V to +1 V (fix)<br>0 V to +2 V (var) |
| 15 | I/Q phase difference (zero-phase meter for I and Q) | | 14 | 0 to 2.5 V |

Test points on the I/Q board can be queried with the following command:

Command: ➢ `DIAG:TPO<n>?` `Measured value query for test point n`

By this command, the desired test point n is selected, the internal A/D converter is started and the result output. For repeated measurement, the command must be repeated.

Moreover, the ID of the I/Q board and thus the modification level can be queried with the following command:

Command: ➢ `DIAG:ABO:ID?` `Query of board ID`

# Selftest of AMIQ

Starting with firmware version 2.10, the I/Q board's performance and compliance with the technical data can be tested automatically without using any additional test equipment. This selftest performs the necessary instrument settings, sets the diagnosis multiplexer to the individual internal diagnosis points, measures the voltages generated at these points and compares them with the rated values.

The selftest is started with the „`*TST?`“ command.

- If none of the measured values exceeds the tolerance limits AMIQ responds with a „0“. If the instrument is controlled via WinIQSIM the final message „selftest completed successfully“ is output if no error was detected.
- On the other hand, if one or several of the measured values (e.g. in the case of successive errors) exceed the tolerance limits, AMIQ responds with a „1“. If the instrument is controlled via WinIQSIM or via AMIQ's service program the individual error messages containing the wrong measured values are output successively after the selftest is completed.

Whether a minor violation of the permissible range (possibly due to aging or missing calibration) or a completely wrong value (due to a hardware defect, e.g. defective modules) occurred can be decided by comparing with the following table listing the rated values together with the permissible ranges.

## Test Procedure

The selftest is performed in several steps:

- The current device state is saved, the outputs are switched off to avoid damage of any devices which may be connected to AMIQ (only if a complete selftest is called up).
- The diagnosis system test itself (its own ground and reference voltages).
- The setting ranges of the offset corrections are tested.
- The calibration settings are used to measure the current offset voltages in the individual branches of the electric network.
- The reference and VCO frequencies are checked.
- The signal levels are tested by means of an applied sinewave signal.
- The attenuator is tested with a DC level.
- A rectangular signal with a phase shift of 180° between I and Q is applied to test whether the filters in both (I and Q) channels are equal.
- The device state saved before the selftest was started is restored.

## Table of Rated Values and Permissible Ranges:

To perform a statistical analysis of a detected error the individual test points or groups of test points can be selected separately. These diagnosis commands are explained in detail in chapter 6 of the AMIQ operating manual. If option AMIQ-B2 (differential outputs) is fitted the instrument must be set to SINGLE mode (UNBal), otherwise the level settings are changed.

| Test function | Test point (see circuit diagram) | Rated value [V] | Permissible range [V] |
|---|---|---|---|
| Ground diagnosis system | 0 | 0.0 | -0.005 ... +0.005 |
| Diagnosis reference | 1 | 1.25 | +1.24 ... +1.26 |
| DAC reference voltage | 2 | 1.235 | +1.22 ... +1.25 |
| I-offset adj. (FIX) with 0000 | 5 | 0.1235 | +0.1 ... +0.147 |

| Test function | Test point (see circuit diagram) | Rated value [V] | Permissible range [V] |
|---|---|---|---|
| I-offset adj. (FIX) with 4095 | 5 | -0.1235 | -0.147 ... -0.1 |
| Q-offset adj. (FIX) with 0000 | 6 | 0.1235 | +0.1 ... +0.147 |
| Q-offset adj. (FIX) with 4095 | 6 | -0.1235 | -0.147 ... -0.1 |
| I-offset adj. (VAR) with 0000 | 9 | -0.3 | -0.56 ... -0.04 |
| I-offset adj. (VAR) with 4095 | 9 | +0.3 | +0.04 ... +0.56 |
| Q-offset adj. (VAR) with 0000 | 10 | -0.3 | -0.56 ... -0.04 |
| Q-offset adj. (VAR) with 4095 | 10 | +0.3 | +0.04 ... +0.56 |
| I-offset (FIX) LIN | 11 | 0.0 | -0.005 ... +0.005 |
| I-offset (FIX) 2.5 MHz | 11 | 0.0 | -0.005 ... +0.005 |
| I-offset (FIX) 25 MHz | 11 | 0.0 | -0.005 ... +0.005 |
| I-offset (FIX) LIN | 13 | 0.0 | -0.005 ... +0.005 |
| I-offset (FIX) 2.5 MHz | 13 | 0.0 | -0.005 ... +0.005 |
| I-offset (FIX) 25 MHz | 13 | 0.0 | -0.005 ... +0.005 |
| Reference frequency with 0000 | 3 | 0.0 | -0.005 ... +0.005 |
| Reference frequency with 4095 | 3 | 2.5 | +2.3 ... +2.7 |
| VCO with 51 MHz | 4 | 0.225 | +0.15 ... +0.3 |
| VCO with 100 MHz | 4 | 1.45 | +1.3 ... +1.6 |
| I-level (FIX) LIN with 0000 | 12 | 1.3 | +1.17 ... +1.43 |
| I-level (FIX) LIN with 4095 | 12 | 0.76 | +0.61 ... +0.91 |
| I-level (FIX) 2.5 MHz with 0000 | 12 | 1.3 | +1.17 ... +1.43 |
| I-level (FIX) 2.5 MHz with 4095 | 12 | 0.76 | +0.61 ... +0.91 |
| I-level (FIX) 25 MHz with 0000 | 12 | 1.3 | +1.17 ... +1.43 |
| I-level (FIX) 25 MHz with 4095 | 12 | 0.76 | +0.61 ... +0.91 |
| Q-level (FIX) LIN with 0000 | 14 | 1.3 | +1.17 ... +1.43 |
| Q-level (FIX) LIN with 4095 | 14 | 0.76 | +0.61 ... +0.91 |
| Q-level (FIX) 2.5 MHz with 0000 | 14 | 1,3 | +1.17 ... +1.43 |
| Q-level (FIX) 2.5 MHz with 4095 | 14 | 0.76 | +0.61 ... +0.91 |
| Q-level (FIX) 25 MHz with 0000 | 14 | 1.3 | +1.17 ... +1.43 |
| Q-level (FIX) 25 MHz with 4095 | 14 | 0.76 | +0.61 ... +0.91 |
| I-level (VAR) with 0000 | 12 | 2.27 | +1.82 ... +2.72 |
| I-level (VAR) with 4095 | 12 | 2.27 | +1.82 ... +2.72 |
| Q-level (VAR) with 0000 | 14 | 2.27 | +1.82 ... +2.72 |
| Q-level (VAR) with 4095 | 14 | 2.27 | +1.82 ... +2.72 |
| I-attenuator -20 dB | 11 | 0.1 | +0.08 ... +0.12 |
| I- attenuator -40 dB | 11 | 0.01 | +0.005 ... +0.015 |

| Test function | Test point (see circuit diagram) | Rated value [V] | Permissible range [V] |
|---|---|---|---|
| Q- attenuator -20 dB | 13 | 0.1 | +0.08 ... +0.12 |
| Q- attenuator -40 dB | 13 | 0.01 | +0.005 ... +0.015 |
| Lowpass 2.5 MHz I/Q | 15 | > 2.0 | – |
| Lowpass 25 MHz I/Q | 15 | > 2.0 | – |

The numbers 0000 and 4095 denote the data word of the corresponding DAC responsible for the level or offset setting.

# 3 Repair

This chapter describes the hardware of AMIQ as well as simple measures for repair and fault diagnosis (see chapter 8 of operating manual). Repair measures include in particular the replacement of modules. For fault diagnosis, a group of service commands is available that allow direct hardware settings and queries.

The fitting of options and updating of software are dealt with in chapter 4 of this service manual. Chapter 4 of the operating manual provides an overview of the AMIQ I/Q adjustment facilities by means of a simplified block diagram.

## Replacement of Modules

**Warning!**

*Disconnect unit from AC supply before opening the case. Observe the safety instructions given at the beginning of this manual.*

*Make sure that cables are neither damaged nor disconnected when putting the casing back in place.*

**Hardware of AMIQ**

AMIQ consists of an industry-compatible PC (in the upper part of the unit) and the AMIQ hardware (IQ board + options). To make settings on the PC, therefore, a monitor card, monitor and keyboard must be connected.

**Monitor and monitor card**

To make settings on the PC, a monitor card for a PCI slot and monitor are required. The monitor card and the monitor need not have any special characteristics; they must be capable of displaying BIOS and DOS messages (see section "Setting of BIOS"). For installation, the rear cover of the monitor card is to be removed and the monitor connected to the plugged card.

**Keyboard**

A keyboard with a PS/2 connector is needed. There is no special keyboard driver installed, so the keyboard assignment is international. The keyboard is to be connected to X12(K).

### Replacement of PC Board

The PC board is a socket 7 board in ATX format. The jumpers are to be set in accordance with the enclosed board documentation. The PCI bus clock is to be set to 60 MHz and the CPU core voltage according to the CPU imprint (3.5 V for IDT C 6). The CPU clock multiplier must be set to 2. Replace PC board as follows:

- Switch unit off and disconnect it from the AC supply. Unscrew rear feet and withdraw casing towards the rear.
- Unplug ISA bus adapter. Do not touch contacts.
- Unplug cables for loudspeaker, floppy disk drive and hard disk. Disconnect ATX power connector.
- Remove PC board screws and slide.
- Undo screws of the rear panel sheet and remove PC board.

- Unscrew rear cover from old ATX board and screw it to new board. When replacing ATX board make sure to install the correct board version. Early AMIQ instruments, model 02, accommodate an ATX board with single-row arrangement of connectors. This board has the Order No. 1110.3180.00. The ATX board with two-row arrangement of connectors has the Order No. 1110.3216.00. Stick adhesive rubber spacers to solder side of new board (4 spacers: R&S Order No.: 0265.4390.00), one in the middle below socket 7, one in the middle of the board, one at the hard disk connectors, and one on the corner pointing towards the power board.
- Remove memory, CPU and CPU cooler from old board and mount them on new board.
- Fit and fix new board; mount slide as required for board size.
- Plug cables for loudspeaker, floppy disk drive and hard disk. Observe correct polarity. The hard disk is to be connected to IDE port 1 (or *primary*). Plug ATX power connector, lay cables neatly and secure them by means of cable ties.
- Connect ISA bus adapter. Do not touch contacts.
- Fit monitor card and connect a monitor.
- Connect unit to AC supply and switch it on. The built-in PC board should now signal on the monitor. Check BIOS settings.
- Reassemble unit. Take care not to damage any cables.

## Replacement of Battery on PC Board

The battery of the type CR2032 is accommodated on the controller in the upper part of the unit. Replace battery as follows:

- Switch unit off and disconnect it from the AC supply. Unscrew rear feet and withdraw casing towards the rear.
- Remove old battery from its holder and insert new battery (observe correct polarity).
- Connect monitor and keyboard (see above).
- Connect unit to AC supply and switch it on. The built-in PC board should now signal on the monitor. Check BIOS settings.
- Reassemble unit.

## Setting of BIOS

- Stop startup procedure by pressing DEL key and go to setting menu for BIOS.
- Select 'Default' or AUTO in BIOS setting menu, then set hard disk by means of AUTO DETECT'. If BIOS allows speed setting of the PCI bus, set bus to 60 MHz (but not faster for reasons of thermal stability). For detailed information on BIOS setting please refer to enclosed (original) information on PC motherboard.
- Set boot sequence to C:,A:.

***Note:*** *The information on the PC motherboard is enclosed as an additional document with the Rohde & Schwarz equipment documentation.*

## Replacement of Hard Disk

- Switch unit off and disconnect it from AC supply. Screw off rear feet and withdraw casing towards the rear.
- Unplug and remove hard disk.
- Plug new hard disk on adapter (make sure that connection is correct), mount adapter on supporting panel and fit it into AMIQ. If the spacing of the fixing holes is not sufficient with early instruments of model 02, replace the supporting panel for the hard disk.
- Connect monitor and keyboard (see above).
- Set boot sequence A:,C: or First Boot Device: Floppy in BIOS in order to boot from the AMIQ-Preparation Disk. To this end, press DEL to go to BIOS and set boot sequence in setting menu.
- Sign on new hard disk with BIOS by means of AUTO DETECT.

The hard disk must be partitioned and formatted, and the operating system must be installed. For this, insert disk labelled "**AMIQ Preparation Disk**" and switch unit on.

Subsequent to booting from the Preparation Disk , various entries and settings have to be made according to the messages output on the VGA monitor. These entries may vary according to the version of the Preparation Disk.

The AMIQ models 03, 04 require a preparation disk of the version ≥1.3 to be used.

While the Preparation Program is running, the hard disk is partitioned, formatted and a minimum operating system is installed. Besides, the FPGA components in the AMIQ are programmed, taking into consideration the AMIQ model. Thus, with IQ-board replacement, the serial number is also entered.

The Preparation Disk does not install the AMIQ firmware. Use the AMIQ Program Disk to this end.

- Set boot sequence A:,C: in BIOS. To this end, press Del key to go to BIOS and set boot sequence in setting menu.
- Remove **AMIQ Preparation Disk** from drive and make normal reinstallation of AMIQ software (see chapter 4).

## Replacement of IQ Board

- Switch unit off and disconnect it from AC supply. Screw off rear feet and withdraw casing towards the rear.
- Turn unit and unplug IQ board.
- Unplug LED board, ISA adapter and IEC/IEEE-bus cables as well as cables of I and Q outputs.
- If option AMIQB19 is fitted, remove it and mount it on new IQ board.
- Fit new IQ board and replug all cables.
- Reassemble unit. Take care not to damage any cables.
- Switch unit on. The serial number and options installed should be stored in the EEPROM.
- Trigger calibration: Command `:CAL:ALL?`
- Restore and check reference oscillator: 10 MHz should be measured at reference output.

The following note applies to the removal of a functioning IQ board which is to be used in another unit. In this case, any modifications made to the IQ board by AMIQ must be restored to their original condition prior to removing the board.

***Note:*** *The serial number of AMIQ, the release of options installed (if these are soft-*

*ware options) and all calibration data are stored in an EEPROM on the IQ board. Prior to removing the IQ board, the following should be noted:*

- *When an IQ board is fitted, the serial number and option list are transferred to the hard disk. The EEPROM contents must therefore erased prior to removing the IQ board.*
- ***The EEPROM is always erased completely.** For this reason, the calibration data for the reference oscillator must be read out of the EEPROM prior to removal and stored again when the IQ board is re-used.*

1. Saving of calibration data

The command `:CAL:ROSC?` reads the tuning voltage for the reference oscillator from the EEPROM.

Take down this value and enter into the unit when the IQ board is re-used (see point 3).

2. Erasing of EEPROMs

The command `:TEST:EEPRom 0` erases the contents of the EEPROM on the IQ board.

The command causes the first byte of the EEPROM to be overwritten with 0. Since the first byte is part of the checksum on the EEPROM, the EEPROM content thus becomes invalid. In fact, the EEPROM is completely erased in this way. This includes the serial number, the list of options installed and all calibration data.

3. Restoring of calibration data

After erasing the EEPROM and fitting the IQ board into another unit, all calibration data must be restored:

- ➢ Write the noted calibration value for the reference oscillator into the EEPROM with the command `:CAL:ROSC`.
- ➢ All the other calibration values can be restored with the command `CAL:ALL?` without any further adjustment or measuring equipment needed.

## Replacement of Power Supply

- ➢ Switch unit off and disconnect it from AC supply. Screw off rear feet and withdraw casing towards the rear.
- ➢ Unscrew lateral handles, remove front cover.
- ➢ Remove cover of power supply; the front screws are accessible through holes in the front supporting plate.
- ➢ Undo connections of power supply and remove power supply (2 screws on the rear, 2 screws at the bottom; if the screws are concealed by options, remove options first).
- ➢ Fit new power supply, make the required connections and fit cover.
- ➢ Reassemble unit. Take care not to damage any cables.

# TEST System

The TEST system provides commands for the self-test and for fault diagnosis. The commands directly access the instrument hardware. The „*TST?“ command calls up a complete selftest performing measurements at all test points available and checking whether the measured values are within the tolerance limit (for a detailed description refer to chapter 6 of the operating manual).

**Warning!**

*The settings listed below bypass the normal safety precautions and may create undesired conditions.*

- Normal operating status can be restored by switching the unit off and on again or by *RST.
- *RST has no direct effect on the values set via the TEST system. Rather does *RST reset other AMIQ parameters whose change then affects the values set via the TEST system. Because of this indirect effect, it is not expedient to specify separate *RST values for the setting parameters of the TEST system.

Table 3-1 TEST - Self-Test and Diagnosis

| Command | Parameter | Page |
|---|---|---|
| :TEST:ABOard:DAC_SKEW_ADJ | 0...4095 | 3.7 |
| :TEST:ABOard:DIFF | 0\|1 (OFF/ON) (AMIQ-B2) | 3.7 |
| :TEST:ABOard:DIG_OUT_EN | 0\|1 (OFF/ON) (AMIQ-B3) | 3.7 |
| :TEST:ABOard:I_AMPL_ADJ | 0...4095 | 3.7 |
| :TEST:ABOard:I_AMPL_VAR | 0...4095 | 3.7 |
| :TEST:ABOard:I_AMPL_VAR_EN | 0\|1 (OFF/ON) | 3.7 |
| :TEST:ABOard:I_ATT_SEL | 0...3 | 3.8 |
| :TEST:ABOard:I_Bias | 0...4095 (AMIQ-B2) | 3.8 |
| :TEST:ABOard:I_EN | 0\|1 (OFF/ON) (AMIQ-B2) | 3.8 |
| :TEST:ABOard:I_EN_INV | 0\|1 (OFF/ON) (AMIQ-B2) | 3.8 |
| :TEST:ABOard:I_FILT_SEL | 0...3 | 3.8 |
| :TEST:ABOard:I_OFFSETA_ADJ | 0...4095 | 3.9 |
| :TEST:ABOard:I_OFFSETB_ADJ | 0...4095 | 3.9 |
| :TEST:ABOard:I_OUT_EN | 0\|1 (OFF/ON) | 3.9 |
| :TEST:ABOard:Q_AMPL_ADJ | 0...4095 | 3.9 |
| :TEST:ABOard:Q_AMPL_VAR | 0...4095 | 3.9 |
| :TEST:ABOard:Q_AMPL_VAR_EN | 0\|1 (OFF/ON) | 3.9 |
| :TEST:ABOard:Q_ATT_SEL | 0...3 | 3.9 |
| :TEST:ABOard:Q_Bias | 0...4095 (AMIQ-B2) | 3.10 |
| :TEST:ABOard:Q_EN | 0\|1 (OFF/ON) (AMIQ-B2) | 3.10 |

| Command | Parameter | Page |
|---|---|---|
| :TEST:ABOard:Q_EN_INV | 0\|1 (OFF/ON) (AMIQ-B2) | 3.10 |
| :TEST:ABOard:Q_FILT_SEL | 0...3 | 3.10 |
| :TEST:ABOard:Q_OFFSETA_ADJ | 0...4095 | 3.10 |
| :TEST:ABOard:Q_OFFSETB_ADJ | 0...4095 | 3.10 |
| :TEST:ABOard:Q_OUT_EN | 0\|1 (OFF/ON) | 3.11 |
| :TEST:ABOard:VTCXO_TUNE | 0...4095 | 3.11 |
| :TEST:BERTest? | | 3.11 |
| :TEST:ABOard:I_AMPL_ADJ | 0...4095 | 3.11 |
| :TEST:DIAGnostic:ADCAL | 0\|1 (OFF/ON) | 3.11 |
| :TEST:DIAGnostic:ADCONV | 0\|1 (OFF/ON) | 3.11 |
| :TEST:DIAGnostic:IRELais | 0\|1 (OFF/ON) | 3.12 |
| :TEST:DIAGnostic:QRELais | 0\|1 (OFF/ON) | 3.12 |
| :TEST:DIAGnostic:VALue? | | 3.12 |
| :TEST:EEPRom | <numeric_value> | 3.12 |
| :TEST:LED<n> | 0\|1 (OFF/ON) | 3.12 |
| :TEST:SDR:RUN | – | 3.12 |
| :TEST:SDRam:DAC | <i-value>, | 3.13 |
| :TEST:SDRam:DATA? | <start>, | 3.13 |
| :TEST:SDRam:FILL | <length> | 3.13 |
| :TEST:SDRam:AMPL | <level> | 3.13 |
| :TEST:SDRam:MODE | SLOW\|FAST | 3.13 |
| :TEST:SDRam:OFFSet | <offset> | 3.13 |
| :TEST:SDRam:PERiod | <samples> | 3.14 |
| :TEST:SDRam:PHASe | <samples> | 3.14 |
| :TEST:SDRam:WAITpattern | <i-value>, | 3.14 |
| :TEST:SDRam:WAVeform | SINE\|SQUARe\|DC | 3.14 |
| :TEST:SYNThesizer:REFerence | 0...3 | 3.14 |
| :TEST:SYNThesizer:PRESCale | 0...3 | 3.14 |
| :TEST:SYNThesizer:DDSClock | 0...3 | 3.15 |
| :TEST:SYNThesizer:DDSFinc | 0...4294967294 | 3.15 |
| :TEST:SYNThesizer:SOSelect | 0...7 | 3.15 |
| :TEST:SYNThesizer:N<n> | 0...255 | 3.15 |
| :TEST:SYNThesizer:ROSelect | 0\|1 | 3.15 |

## :TEST:ABOard

With the following commands, settings can be made on the analog board. Any settings for this board not included here will be found as regular IEC/IEEE-bus commands in another section. Most of the commands cannot be abbreviated and are therefore given in full length and in capital letters. It is possible to read the results, but not directly from the hardware. Only values stored in the AMIQ software can be read.

### :TEST:ABOard:DAC_SKEW_ADJ 0...4095

This command defines the 12-bit D/A converter value for adjusting clock synchronism for the I and Q waveform D/A converters.

**Example:** `:TEST:ABO:DAC_SKEW_ADJ 2048`

### :TEST:ABOard:DIFF 0|1

This command activates the differential outputs provided that option AMIQ-B2 is fitted. Otherwise the error message `<Error 241, „Necessary option not installed; TEST:ABO:DIFF x">` is output. This hardware-related command sets directly the relays required for activating the differential outputs.

0 Asymmetric outputs (signal by-passes the B2-operational amplifiers)

1 Symmetric outputs (all four outputs active)

The internal logic implies that it depends on the I_EN, Q_EN and DIFF settings whether a signal is acually applied to the outputs.

### :TEST:ABOard:DIG_OUT_EN 0|1

This command activates the digital output of the AMIQ provided that option AMIQ-B3 is fitted. When switched off, the data and clock outputs are high-impedance. If the option is not installed, the error message `<Error 241, „Necessary option not installed; TEST:ABO: DIG_OUT_EN x">` is output.

0 Digital output switched off (high-impedance)

1 Digital output activated

**Example** `:TEST:ABO:DIG_OUT_EN 1`

### :TEST:ABOard:I_AMPL_ADJ 0...4095

This command is for fine adjustment of the I channel amplitude (variation of reference voltage for I channel D/A converter).

**Example:** `:TEST:ABO:I_AMPL_ADJ 2048`

### :TEST:ABOard:I_AMPL_VAR 0...4095

This command is for entering the electronic level variation for the I channel.

0 (-1) Maximum negative level
2048 (0) Minimum level
4095 (+1) Maximum positive level

**Example:** `:TEST:ABO:I_AMPL_VAR 2048`

**:TEST:ABOard:I_AMPL_VAR_EN 0|1**

This command switches the electronic level variation for the I channel on or off.

**Example:** `:TEST:ABO:I_AMPL_VAR_EN 1`

**:TEST:ABOard:I_ATT_SEL 0...3**

This command selects the mechanical attenuator for the I channel.

0 = 0 dB
1 = 20 dB
2 = 40 dB
3 = off, relay open

**Example:** `:TEST:ABO:I_ATT_SEL 1`

**:TEST:ABOard:I_Bias 0 ... 4095**

This command defines the amplitude of the bias voltage of the I channel. It must be activated only if option AMIQ-B2 is fitted. Otherwise the error message <Error 241, „Necessary option not installed; TEST:ABO:I_Bias x"> is output. This command affects the DAC directly. The bias voltage can be set in the range of –2,5 V to +2,5 V.

0 +2,5V

4095 –2,5V

To be able to measure the bias voltage at the outputs, I_EN and DIFF must be set to 1.

**:TEST:ABOard:I_EN 0|1**

This command switches the I output on or off. It must be used only if option AMIQ-B2 is fitted. Otherwise the error message <Error 241, „Necessary option not installed; TEST:ABO:I_EN x"> is generated.

0 I-output is switched off

1 I- output is switched on (if DIFF = 1 at the same time)

**:TEST:ABOard:I_EN_INV 0|1**

This command controls the output relay K2 of the inverted I output directly. It must be used only if option AMIQ-B2 is fitted. Otherwise the error message <Error 241, „Necessary option not installed; TEST:ABO:I_EN_INV x"> is generated.

0 $\overline{I}$ is switched off

1 $\overline{I}$ is switched on

The bias voltage can be measured at the $\overline{I}$ output if it is switched on and the device is set appropriately. The internal logic implies that it depends on the I_EN and DIFF settings whether the inverted I signal is also output.

**:TEST:ABOard:I_FILT_SEL 0...3**

This command selects the filter for the I channel.

0 = off

1 = filter 1

2 = filter 2

3 = external filter

**Example:** :TEST:ABO:I_FILT_SEL 1

**:TEST:ABOard:I_OFFSETA_ADJ 0...4095**

This command is for fine adjustment of the I channel offset without electronic attenuator (calibration).

**Example:** :TEST:ABO:I_OFFSETA_ADJ 2048

**:TEST:ABOard:I_OFFSETB_ADJ 0...4095**

This command is for varying the I channel offset; it compensates the unwanted offset caused by the electronic attenuator.

**Example:** :TEST:ABO:I_OFFSETB_ADJ 2048

**:TEST:ABOard:I_OUT_EN 0|1**

This command switches the I channel output on (1) or off (0) via a relay.

**Example:** `:TEST:ABO:I_OUT_EN 1`

**:TEST:ABOard:Q_AMPL_ADJ 0...4095**

This command is for fine adjustment of the Q channel amplitude (variation of reference voltage of Q channel D/A converter).

**Example:** `:TEST:ABO:Q_AMPL_ADJ 2048`

**:TEST:ABOard:Q_AMPL_VAR 0...4095**

This command is for entering the electronic level variation for the Q channel:

| | | |
|---|---|---|
| 0 | (-1) | Maximum negative level |
| 2048 | (0) | Minimum level |
| 4095 | (+1) | Maximum positive level |

**Example:** `:TEST:ABO:Q_AMPL_VAR 2048`

**:TEST:ABOard:Q_AMPL_VAR_EN 0|1**

This command switches the electronic level variation for the Q channel on or off.

**Example:** `:TEST:ABOard:Q_AMPL_VAR_EN 0`

**:TEST:ABOard:Q_ATT_SEL 0...3**

This command selects the mechanical attenuator for the Q channel.

0 = 0 dB
1 = 20 dB
2 = 40 dB
3 = off, relay open

**Example:** `:TEST:ABO:Q_ATT_SEL 1`

**:TEST:ABOard:Q_Bias 0 ... 4095**

This command defines the amplitude of the bias voltage of the Q channel. It must be activated only if option AMIQ-B2 is fitted. Otherwise the error message `<Error 241, „Necessary option not installed; TEST:ABO:Q_Bias x">` is output. This command affects the DAC directly. The bias voltage can be set in the range of –2,5 V to +2,5 V.

0 +2,5V

4095 –2,5V

To be able to measure the bias voltage at the outputs, Q_EN and DIFF must be set to 1.

**:TEST:ABOard:Q_EN 0|1**

This command switches the Q output on or off. It must be used only if option AMIQ-B2 is fitted. Otherwise the error message `<Error 241, „Necessary option not installed; TEST:ABO:Q_EN x">` is generated.

0 Q-output is switched off

1 Q- output is switched on (if DIFF = 1 at the same time)

**:TEST:ABOard:Q_EN_INV 0|1**

This command controls the output relay K2 of the inverted Q output directly. It must be used only if option AMIQ-B2 is fitted. Otherwise the error message `<Error 241, „Necessary option not installed; TEST:ABO:Q_EN_INV x">` is generated.

0 $\overline{Q}$ is switched off

1 $\overline{Q}$ is switched on

The bias voltage can be measured at the $\overline{Q}$ output if it is switched on and the device is set appropriately. The internal logic implies that it depends on the Q_EN and DIFF settings whether the inverted Q signal is also output.

**:TEST:ABOard:Q_FILT_SEL 0...3**

This command selects the filter for the Q channel.

0 = off

1 = filter 1

2 = filter 2

3 = external filter

**Example:** `:TEST:ABO:Q_FILT_SEL 1`

**:TEST:ABOard:Q_OFFSETA_ADJ 0...4095**

This command is for fine adjustment of the Q channel offset without electronic attenuator (calibration).

**Example:** `:TEST:ABO:Q_OFFSETA_ADJ 2048`

**:TEST:ABOard:Q_OFFSETB_ADJ 0...4095**

This command is for varying the Q channel offset; it compensates the unwanted offset caused by the electronic attenuator.

**Example:** `:TEST:ABO:Q_OFFSETB_ADJ 2048`

**:TEST:ABOard:Q_OUT_EN 0|1**

This command switches the Q channel output on (1) or off (0) via a relay.

**Example:** `:TEST:ABO:Q_OUT_EN 1`

**:TEST:ABOard:VTCXO_TUNE 0...4095**

This command defines the 12-bit D/A converter value for tuning the 10 MHz reference oscillator when an internal reference is used.

**Example:** `:TEST:ABO:VTCXO_TUNE 2048`

## :TEST:BERTest

Low-level commands for checking the built-in bit error rate test system.

**:TEST:BERTest?**

This command is for checking the BER interface at the rear. Before the command is issued, a test adapter (see chapter 1, "BER Interface") must be plugged. If the test is successful, '0' is returned, in case of an error '1'.

**Example:** `:TEST:BER?`

## :TEST:CALibrate

Low-level commands enabling direct access to calibration data.

**:TEST:CALibrate:RESet**

This command erases all calibration values from the EEPROM and replaces them by internal default values.

***IMPORTANT:*** *All the old values are irrevocably erased by this command and cannot be restored by *RST! The unit must in any case be recalibrated after this command.*

**Example:** `:TEST:CAL:RES`

## :TEST:DIAGnostic

Low-level commands for control of the built-in diagnostic system. At a higher level, this system supplies direct voltage values at various test points with the command :DIAGnostic:TPOint?. The commands given below allow direct control of the diagnostic hardware.

**:TEST:DIAGnostic:ADCAL ON|OFF**

This command causes the reset or calibration signal line of the diagnostic A/D converter to assume logic 1 or logic 0.

**Example:** `:TEST:DIAG:ADCAL OFF`

**:TEST:DIAGnostic:ADCONV ON|OFF**

This command switches the "conversion" bit of the diagnostic A/D converter on or off.

**Example:** `:TEST:DIAG:ADCONV OFF`

**:TEST:DIAGnostic:IRELais ON|OFF**

This command switches the diagnostic relay of the I channel on, thus connecting the diagnostic A/D converter to test point 11, 12 or 15.

***Note:*** *The command* `DIAGnostic:TPOINT<n>?` *switches the relay on for <n> = 11, 12 or 15 and switches it off automatically after the measurement; no separate switch-off command is required.*

**Example:** `:TEST:DIAG:IREL OFF`

**:TEST:DIAGnostic:QRELais ON|OFF**

This command switches the diagnostic relay of the Q channel on, thus connecting the diagnostic A/D converter to test point 13, 14 or 15.

***Note:*** *The command DIAGnostic:TPOINT<n>? switches the relay on for <n> = 13, 14 or 15. After the measurement, the relay is switched off automatically; no separate switch-off command is required.*

**Example:** `:TEST:DIAG:QREL ON`

**:TEST:DIAGnostic:VALue?**

This is a mere query command for reading the instantaneous value (decimal number) at the output of the A/D converter.

***IMPORTANT!*** *No conversion is triggered by this command, nor does the system wait for any on-going conversion to be completed before the value is read.*

**Example:** `:TEST:DIAG:VAL?`

**:TEST:EEPRom <number>**

This command overwrites the first byte of the EEPROM with the specified number. Since the first byte is part of the checksum on the EEPROM, the EEPROM content thus becomes invalid. In fact, the EEPROM is completely erased in this way. This includes the serial number, the list of options installed and all calibration data.

**Example:** `TEST:EEPR 0`

**:TEST:LED<n> ON|OFF**

This command switches the specified LED on or off:

- LED0 ON LED,
- LED1 RUNNING LED
- LED2 CONTROL LED

***IMPORTANT.*** *The RUNNING LED is normally hardware-controlled; ie the command* `:TEST:LED1` *switches between hardware control and ON. The RUNNING LED cannot be switched off.*

**Example:** `:TEST:LED<n> ON`

**:TEST:SDR:RUN**

This command triggers the output of a calculated curve.

## :TEST:SDRam

With the following commands, data can be written to and read from the output memory (SDRAM).

**:TEST:SDRam:DAC <i-value>, <q-value>**

This command writes the two specified values to the D/A converters of the output memory. The command also sets the voltages at the two output connectors directly to the corresponding values without any action being required by the output memory nor by the software. Any waveform currently being output by the memory is stopped.

The two values must be indicated with 16 bits (the two least significant bits – the marker bits – are ignored). The value 32768 corresponds to a voltage of 0 V.

There is *no* query form of this command.

**Example:** `:TEST:SDR:DAC 8192, 4000`

**:TEST:SDRam:DATA? <start>, <count>**

This command reads the specified range from the output memory. The range is output as a list of ASCII characters (alternating I and Q values) with commas as delimiters.

**Example:** `:TEST:SDR:DATA? 0, 100`

**:TEST:SDRam:FILL <length>**

This command fills the defined number of points ('length') of the output memory with the waveform defined by `:TEST:SDRam:WAV`. The command also sets the loop pattern.

**Example:** `:TEST:SDR:FILL 1000`

**:TEST:SDRam:AMPL <level>**

This command defines the level (measured from the selected offset to the peak). Here, the D/A converter values are to be specified. For example, with an offset of 32768 (0x8000), values between 0 (0x00) and 32767 (0x7FFF) are possible. This setting is ignored for the DC waveform. The sum of offset and amplitude must not exceed 0xFFFF, and the amplitude must not be larger than the offset.

**Example:** `:TEST:SDR:AMPL 8192`

**:TEST:SDRam:MODE SLOW|FAST**

This command defines the mode of the output memory. The mode can be queried.

**Example:** `:TEST:SDR:MODE SLOW`

**:TEST:SDRam:OFFSet <offset>**

This command defines the DC offset for the desired waveform. This value is added to each sample of the waveform; possible values therefore range from 0 (0x00) to 65535 (0xFFFF). The sum of offset and amplitude must not exceed 0xFFFF, and the amplitude must not be larger than the offset.

**Example:** `:TEST:SDR:OFFS 32768`

**:TEST:SDRam:PERiod <samples>**

This command defines the period of the waveform in the output memory in the form of samples (curve points). This value need *not* be integer. For the DC waveform, defining the period makes no sense but it must be defined nevertheless. The period can be queried.

**Example:** `:TEST:SDR:PER 100.5`

**:TEST:SDRam:PHASe <samples>**

This command defines the phase between I and Q in the form of samples (curve points). Positive values cause a lag of Q relative to I, negative values cause a lead of Q relative to I. The phase can be queried.

**Example:** `:TEST:SDR:PHAS 10`

**:TEST:SDRam:IDLE <i-value>, <q-value>**

This command defines the value to be output by AMIQ while it is waiting for a trigger signal. The permissible range of values is 0 to $2^{16}$.

**Example:** `:TEST:SDR:IDLE 8192, 8192`

**:TEST:SDRam:WAVeform SINE|SQUARe|DC**

This command defines the waveform to be written to the output memory by means of `TEST:SDRam:FILL`. The sinewave starts on zero crossing. The squarewave starts with a high level.

**Example:** `:TEST:SDR:WAV SINE`

## :TEST:SYNThesizer

This command set enables settings of the clock synthesizer hardware.

**:TEST:SYNThesizer:REFerence 0...3**

This command defines the reference frequency for the PLL:

| | |
|---|---|
| 0 | OFF |
| 1 | 2.5 MHz |
| 2 | 5 MHz |
| 3 | 10 MHz |

**Example:** `:TEST:SYNT:REF 1`

**:TEST:SYNThesizer:PREScale 0...3**

This command defines the divider between VCO and high clock:

| | | |
|---|---|---|
| 0 | corresponds to a divider of | 2 |
| 1 and 2 | correspond to a divider of | 4 |
| 3 | corresponds to a divider of | 8 |

**Example:** `:TEST:SYNT:PRES 1`

**:TEST:SYNThesizer:DDSClock 0...3**

This command defines the divider between high clock and DDS clock:

0 OFF,

1 12.5 MHz to 25 MHz

2 25 MHz to 50 MHz

3 50 MHz to 100 MHz

**Example:** `:TEST:SYNT:DDSC 1`

**:TEST:SYNThesizer:DDSFinc 0... (2^32)-1**

This command defines the setting value for the DDS.

**Example:** `:TEST:SYNT:DDSF 8000`

**:TEST:SYNThesizer:SOSelect 0...7**

The command `:TEST:SYNThesizer:SOSelect` (SOS = synthesizer output select) switches dividers 0 to 6 into the signal path or switches clock generation off (SOSelect 7).

**Example:** `:TEST:SYNT:SOS 0`

**:TEST:SYNThesizer:N<n> 0...255**

This command defines the setting values for the divider factors of the "rear" three dividers (<n> = 1, 2, 3). The "front" dividers have a fixed factor of 2.

**Example:** `:TEST:SYNT:N1 8`

**:TEST:SYNThesizer:ROSelect 0|1**

The command `TEST:SYNThesizer:ROSelect` (ROS = reference output select) switches the internal 10 MHz VTCXO (1) or the reference input (0) through to the reference output.

**Example:** `:TEST:SYNT:ROS 1`

# 4 Firmware Update/Fitting of Options

This chapter provides information on the extension and modification of AMIQ. Here you can file any descriptions and instructions supplied together with a firmware update or subsequently purchased options.

## Installation of New AMIQ Software

Insert the update floppy (3.5") into the drive of the unit and switch the unit off and on.

On power-up, the unit checks if an update floppy is inserted. If this is the case, the programs in question are loaded. To this end, the floppy is searched for a file named AMIQxxxx.DAT, with xxxx being the version identification.

### Re-Installation of Previous Software

Normally, a firmware update on power-up of AMIQ is performed only if the software to be installed is a later version than the software provided in the unit. If necessary, an older software version can be installed. Proceed as follows:

- Rename the file AMIQxxxx.DAT (with xxxx being the version identification) on the installation disk into AMIQFORC.DAT. The software will then be installed even if a later version is provided in AMIQ.

## Fitting of Options

The following options are available for AMIQ:

| | | |
|---|---|---|
| BER Measurements | AMIQ-B1 | 1110.3500.02 |
| Differential Outputs | AMIQ-B2 | 1110.3500.02 |
| Digital I/Q Output | AMIQ-B3 | 1122.2103.02 |
| I/Q Rear-Panel Connection | AMIQB19 | 1110.3700.02 |
| IS-95 CDMA | AMIQK11 | 1122.2003.02 |

On demand, AMIQ is supplied with the options fitted

**To install the hardware options AMIQ-B2 and AMIQB19, the instrument must be opened. This will break the calibration seal so that the calibration is no longer valid. Installation should be done by an authorized R&S service representative only. No additional measuring equipment is required.**

The installation and setup instructions are provided with the basic documents in the corresponding register of this manual. They are also enclosed with the respective option.

**The following applies to all hardware options:**

**CAUTION!**

*Disconnect unit from AC supply before opening the case. Observe safety instructions given at the beginning of this manual.*

*The unit contains electrostatically sensitive components. The applicable ESD rules for such components must be observed.*

- Switch AMIQ off and disconnect power cable.
- Unscrew feet from the rear of the unit (four size 2 Phillips screws).
- Slide casing towards the rear and remove upwards.
- Fit option and refit casing.

**CAUTION!**

*Make sure that cables are neither damaged nor disconnected when putting the casing back in place.*

- Switch AMIQ on. If the option includes additional software, install the software in accordance with the instructions given above (see section "Installation of New AMIQ Software") and enable the additional software functions (see installation instructions for the option in question). The software will then detect the new option automatically. If calibration is necessary, this can be performed without external measuring equipment.

## Option AMIQ-B1, "BER Measurements"

AMIQ-B1 is a software option which does not require opening of the unit. Install the option in accordance with the instructions enclosed.

## Option AMIQ-B2, "Differential Outputs"

To install the option AMIQ-B19, the unit must be opened, and the front panel must be replaced. Install the option in accordance with the instructions enclosed.

## Option AMIQ-B3, "Digital I/Q Output "

The unit must be opened. Install the option in accordance with the instructions enclosed.

## Option AMIQB19, "Rear I/Q Outputs"

To install the option AMIQ-B19, the unit must be opened. The option uses marker outputs 3 and 4 for its I and Q outputs so that these outputs cannot be assigned otherwise. Install the option in accordance with the instructions enclosed.

# Enabling Option AMIQ-B1, Bit Error Rate Test

Software option **AMIQ-B1, Bit Error Rate Test,** is available for instruments with firmware **version 2.0** or higher. The option must be activated with a key code following the instructions below:

| **Simulation software WinIQSIM version 2.0 or higher available** | **Without WinIQSIM, or WinIQSIM version lower than 2.0** |
|---|---|
| Connect AMIQ to a controller with WinIQSIM software via IEEE-bus cable and put both instruments into operation.<br>Option BER Test must be enabled in WinIQSIM by means of the following menu steps:<br>• **AMIQ**<br>• **Remote Control and BERT**<br>(see WinIQSIM software manual, Chapter "Remote Control and BERT")<br>• **Test and Adjustment**<br>• **Send Command to AMIQ**.<br>In this editor field, arbitrary commands can be transmitted to the AMIQ. Enter the following commands: | It is recommended to order a free firmware update to version 2.0 or higher for both AMIQ and WinIQSIM from your R&S representative. Afterwards, the steps described on the left can be performed.<br><br>Alternatively, the following commands may be entered via a controller with IEEE-bus interface: |

`SYST:OPT AMIQB1,xxxxxxxx`

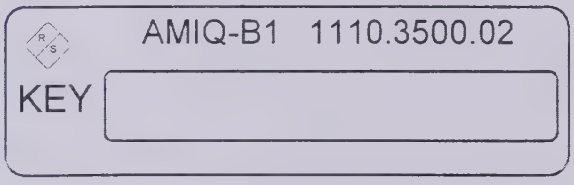
`xxxxxxxx` is the key number which can be taken from the sticker supplied with the option. The option is installed as soon as the key number has been transmitted.
In order to enable BER tests with PRBS sequences, the PRBS operating mode must be activated. This is done by means of the command:

`BERT:SEL 'PRBS'`.

This initiates loading of the appropriate configuration file into the device hardware.

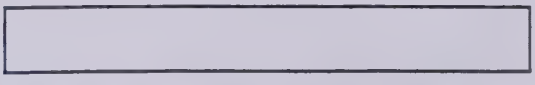
As the configuration file is loaded into the device hardware during the startup procedure, the AMIQ must now be switched off and on again. The measurement mode needs to be configured only once. The configuration will be preserved after a firmware update.

Sticker:




Manufacturer's entry

This key code is linked to the AMIQ serial number:



Manufacturer's entry

The sticker should be safely attached to the rear of the AMIQ casing because the R&S service representative might need the key code in case of repair or maintenance works.

# Installation of Option AMIQ-B19 (I/Q rear installation)

- Switch off AMIQ and disconnect power cable.
- Remove feet at rear (screwdriver, size 2).
- Withdraw enclosure towards the rear.
- Turn unit by 180° so that I/Q Analog/Digital Unit is accessible.
- Remove lateral handles after undoing two screws on each side (screwdriver, size 2)
- Remove labelled front panel.
- Unplug SMB cables to front BNC connectors on I/Q board 1110.2655.02 (X111 and X112).
- Unscrew BNC bracket from front mounting plate (undo three countersunk screws M2.5 by means of screwdriver, size 0).
- Unplug SMB cable from BNC bracket. Screw BNC bracket back to front-panel mounting plate (screwdriver, size 0).
- Affix option labels (1110.2403.00) to front mounting plate.
- Push labelled front panel onto front unit and fix to front frame by fastening screws in handles.
- Unplug short-circuit connectors from X123 and X124 on I/Q board 1110.2655.02
  Plug cable W111 (1110.3439.00) from X111 to X134
  Plug cable W112 (1110.3439.00) from X112 to X133
  Fix two cables in the center shielding by means of a cable tie.
- Affix option label to rear panel.
- Push enclosure from rear onto unit and fasten feet at rear.

  Note: The enclosure must make good contact with the front frame for correct RF shielding of AMIQ. When mounting the feet make sure that the enclosure fits properly into the groove of the frame.

## Information on putting into operation

After switch-on, the unit is operated as usual by WinIQSIM or SMIQ.
I/Q outputs can be plugged into at the rear.

**Important:** Please note that AMIQ cannot be equipped with options B19 **and** B2 at the same time.

## Required tools

Phillips screwdriver, sizes 0 and 2.

| | | | | |
|---|---|---|---|---|
| Abt. / *Dpt.*: 1GPK | Name: SR | Datum / *Date*: 00-02-21 | | Ä.I. / *C.I.*: 02.00 |
| ROHDE & SCHWARZ | Benennung: / *Designation* | MONTAGEANWEISUNG / MOUNTING INTRUCTION | | Bl. / *Sh.* 2 von / *of* 2 |
| Typ / *Type*: AMIQB19 | Sprache / *Language*: de | | Sachnummer / Stock No.: 1110.3451.00 D | |

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# Installation of Option AMIQ-B2 (Differential Outputs)

- Switch off AMIQ and unplug power cable from AC supply
- Unscrew rear panel feet of AMIQ (screwdriver size 2)
- Push the panelling slightly backwards and remove it
- Turn AMIQ by 180° to allow I/Q analog/digital unit to be accessed
- Unscrew front grips on both sides (screwdriver size 2)
- Remove front panel from AMIQ
- Unplug the SMB cable from the BNC jacks on the mounting panel of I/Q analog/digital unit (X111 and X112)
- Unscrew and remove the BNC jack bracket from mounting panel (screwdriver size 0)
- Push option AMIQ-B2 from the rear into the mounting panel and fix it (screwdriver size 0)
- Fix option AMIQ-B2 with two screws (M2,5) on intermediate plate
- Push front panel on mounting panel and fix it with two screws on both sides of the unit
- Plug 20-pole flat cable between option AMIQ-B2 (X25) and I/Q analog/digital unit (X25)
- Plug the two SMB cables between option AMIQ-B2and I/Q analog/digital unit (X111 and X112 on both units)
- Remount panelling and feet to unit (screwdriver size 2)

Note: The panelling must be in good contact with the front frame to ensure RF shielding of AMIQ. Therefore, when mounting the feet, make sure that the panelling is correctly placed in the grooves of the frame.

## Putting into operation

On power up of the instrument, the installed option will be automatically recognized by the software and can be controlled via WinIQSIM or SMIQ. Option AMIQ-B2 contains four potentiometers to compensate for undesired natural offset voltages. These multiturn potentiometers are well balanced in the factory and don't have to be modified.

**Attention:** It is not possible to install both options AMIQ-B2 **and** AMIQB19! Option AMIQB19 connects the outputs I and Q to the rear of the unit, so no input signals are available for AMIQ-B2.

## Tools required

Phillips screwdriver sizes 0 and 2.



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# Installation of Option AMIQ-B3 (Digital I/Q Output)

- Switch off AMIQ and unplug power cable from AC supply
- Unscrew rear panel feet of AMIQ (screwdriver size 2)
- Push the panelling slightly backwards and remove it
- Turn AMIQ by 180° to allow I/Q analog/digital unit to be accessed
- Unscrew front grips on both sides (screwdriver size 2)
- Remove front panel from AMIQ
- Push option AMIQ-B3 from the rear into the mounting panel and fix it with two M2.5 countersunk-head screws (screwdriver size 0)
  Make sure that the shielding plate is correctly seated on the 68-pin connector.
- Fix option AMIQ-B3 with two M2.5 Phillips screws on the intermediate plate (screwdriver size 0)
- Push front panel on mounting panel and fix it with two grips on the two sides of the unit (screwdriver size 2)
- If there is no option AMIQ-B2 (differential outputs) fitted, plug 20-core flat cable between option AMIQ-B3 (X25) and I/Q analog/digital unit (X25).
  If an option AMIQ-B2 is already fitted,
  then replace the 20-core flat cable by the newer one delivered with AMIQ-B3.
- Plug the two 34-core flat cables X39 and X40 between option AMIQ-B3 and I/Q analog/digital unit. Cables and connectors on option and I/Q analog/digital unit have identical markings.
- Remount panelling and rear feet to unit (screwdriver size 2)

  Note: The panelling should be in good contact with the front frame to ensure RF shielding of AMIQ. Therefore, when mounting the feet, make sure that the panelling is correctly placed in the grooves of the frame.

## Putting into operation

On power-up of the instrument, the installed option will be automatically recognized by the software and can be operated via WinIQSIM. Option AMIQ-B3 contains no adjustment devices and is ready for operation immediately. After fitting the option, the digital output is inactive as per default and must be switched on by the control software.

## Tools required

Phillips screwdriver sizes 0 and 2.




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# 5 Circuit Documents

This chapter contains the circuit documents for the AMIQ basic unit. The circuit documents for the modules "IQ Analog/Digital Unit" (IQ Board) and „Differential Outputs“ are relegated to chapters 6 and 7, respectively. Chapter 8 contains the basic documents for the module "Digital I/Q Outputs". To order replacement parts and modules please contact our *spare parts express service* or your Rohde & Schwarz service representative and note the hints given in the following section, "Module and Cable Exchange".

The address of our *spare parts express service* and a list of Rohde & Schwarz representatives can be found at the beginning of this service manual.

## Module and Cable Exchange

Table 5-1 at the end of this section lists all power cables available. The stock numbers necessary for ordering replacement parts and modules can be found in the component lists further down.

**Important Note!**

*When replacing a module please note the safety instructions and the repair instructions given in chapter 3 of this service manual.*

### Ordering replacement parts

To deliver replacement parts promptly and correctly we need the following indications:

- Stock number (see component lists in this chapter)
- Designation
- Component number according to component list
- Number of pieces
- Instrument type the replacement part belongs to
- Contact person for possible questions

### Replaced modules

Replaced modules are an economic alternative for original modules. It should be kept in mind that replaced modules are not new, but repaired and fully tested parts. They may have traces from use but they are electrically and mechanically equivalent to new modules.

To find out which replaced modules are available, please refer to your Rohde & Schwarz representative (or to the central service division, Rohde & Schwarz Munich). The identification number is usually the same as for the original module, but with a variant index .95, .96, .97 or .98.

### Ordering and delivery of replaced modules

For ordering replaced modules, the same indications as for ordinary parts are required, however, with the corresponding variant index appended to the stock number.

### Taking back defective replacement modules

Defective modules of the replacement program which can be repaired are taken back within **3 months** after delivery of the replaced module. A repurchasing value is credited.

Excluded are parts which can not be repaired, e.g. PCBs that are burnt, broken or damaged by repair attempts, incomplete modules, parts which are heavily damaged mechanically.

The defective parts must be sent back with a **returned accompanying document** containing the following information:

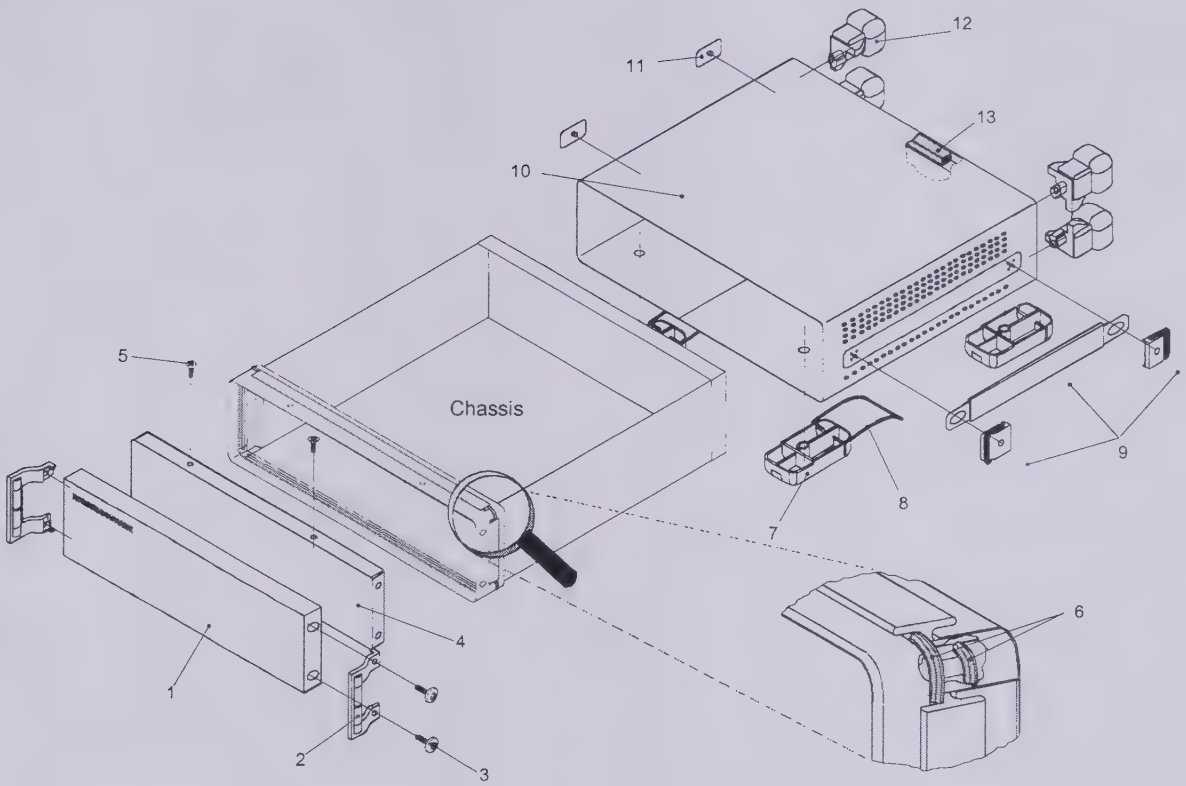
- Stock number, serial number and designation of the dismounted part,
- **Precise** description of the error,
- Stock number, serial number and designation of the instrument the part was dismounted from,
- Date of dismounting,
- Name of the technician who exchanged the part.

A returned accompanying document is provided with each replacement module.

Table 5-1 List of power cables available

| Stock No. | Earthed-contact connector | Preferably used in |
|---|---|---|
| DS 006.7013 | BS1363: 1967' complying with IEC 83: 1975 standard B2 | Great Britain |
| DS 006.7020 | Type 12 complying with SEV-regulation 1011.1059, standard sheet S 24 507 | Switzerland |
| DS 006.7036 | Type 498/13 complying with US-regulation UL 498, or with IEC 83 | USA/Canada |
| DS 006.7107 | Type SAA3 10 A, 250 V, complying with AS C112-1964 Ap. | Australia |
| DS 0025.2365<br>DS 0099.1456 | DIN 49 441, 10 A, 250 V, angular<br>DIN 49 441, 10 A, 250 V, straight | Europe (except Switzerland) |

# Construction of the Casing According to Design 2000




The casing essentially consists of a device-specific chassis, the panelling [10], instrument feet [7, 8, 12] and front grips [2].

The device-specific chassis is shown in the center of the figure above. It consists of a front frame and a module support with rear panel. The front frame is made of a bended aluminum profile, the module support is shaped out of a piece of sheet metal.

The front side is completed by a device-specific mounting panel [4] and a front panel [1].

To close the casing, push the panelling over the chassis starting on the rear side of the instrument.

Screw on the panelling by means of the rear-panel feet [12] equipped with elastic buffers.

The lower instrument feet [7, 8] are tightly screwed to the panelling. They prevent the instrument from gliding, in particular if several instruments are piled up.

The contact edges between the different parts of the casing can be sealed by means of the RF seals [6, 13] provided with the instrument.

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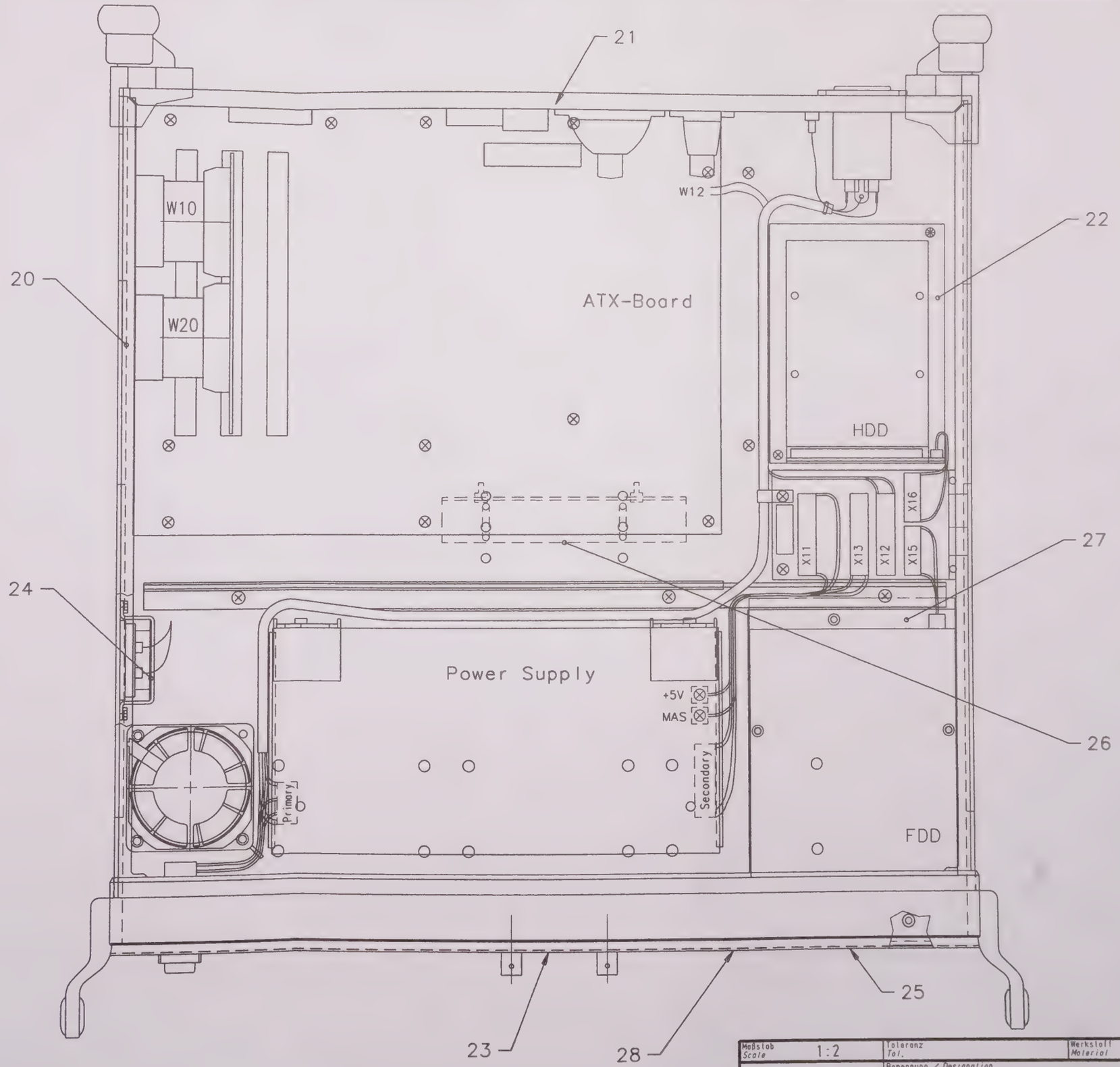


Projektions-methode
*Projection Method*

| | | | | | |
|---|---|---|---|---|---|
| Maßstab *Scale* 1:2 | Toleranz *Tol.* | Werkstoff *Material* | | | |
| ROHDE&SCHWARZ | Benennung / *Designation* AMIQ I/Q-Mod Gen | | | Sprache / *Lang.* de en | Aei. / *C.I.* | Blatt / *Sh.* 2 |
| Typ *Type* AMIQ | | | | Zeichn.Nr. / *Drawing No.* 1007.9022 | | D |
| 1.2. *used in* | Datum *Date* 3.2.2000 | Abteilung *Dept.* 1GPK | Name *Name* Hi/St | | | |

## List of mechanical parts

The AMIQ is constructed in accordance with R&S design 2000.

Size of the casing: 2E 1/1 T450

Overall dimension: 87,6 mm x 465,1 mm x 495 mm

Accessories: 19"-Adapter ZZA-211, Stock no. 1096.3260.00

| Current No. | No. of Parts | Designation | Stock No. |
|---|---|---|---|
| 1 | 1 | Front panel AMIQ var 02<br>Front panel AMIQ var 03, 04 | 1110.2132.00 |
| 2 | 2 | Front grip | 1096.1468.00 |
| 3 | 4 | Screw M4x12 | 1096.4780.00 |
| 4 | 1 | Mounting panel | 1110.2161.00 |
| 5 | 6 | DIN 965 – M3x6 - A4 - PA | 0396.8023.00 |
| 6 | 2 m | RF seal O-Prof. 2,0 SI | 0396.1035.00 |
| 7 | 4 | Instrument foot | 1096.2506.00 |
| 8 | 2 | Foot | 1096.2529.00 |
| 9*) | 1 | Carrying handle, lateral | not available for AMIQ |
| 10 | 1 | Panelling | 1096.6760.00 |
| 11 | 4 | Cover | 1096.2558.00 |
| 12 | 4 | Rear-panel foot | 1096.2487.00 |
| 13 | m | RF seal FL 9,53x6,35 | 1096.4867.00 |
| 20 | 1 | AMIQ frame with cut-out for single-row ATX board<br>AMIQ frame with cut-out for two-row ATX board | 1110.2155.00<br>1110.2484.00 |

*) optional

# Additional Instrument-specific Mechanical Parts

| Current No. | Number | Designation | Stock No. |
|---|---|---|---|
| 21 | 1 | Rear panel, single-row for ATX board 1110.3180<br>Rear panel, two-row for ATX board 1110.3216 | 1110.2310.00<br>1110.2355.00 |
| 22 | 1 | Supporting panel for hard disk | 1110.2284.00 |
| 23 | 1 | Mounting panel for I/Q output var 02<br>Mounting panel for I/Q output var 03, 04 | 1110.2932.00<br>1110.2984.00 |
| 24 | 1 | Fixing brackets for loudspeaker | 1110.2226.00 |
| 25 | 1 | Shielding panel for digital outputt | 1110.2384.00 |
| 26 | 1 | Mounting panel for ATX board | 1110.2249.00 |
| 27 | 1 | Mounting panel for FDD | 1110.2278.00 |
| 28 | 1 | Sheding plate for FDD | 1110.2336.00 |

The location of the individual parts can be obtained from the assembly drawing contained in the basic documents of instrument.

# Circuit Documents

The rest of this chapter contains the circuit diagram and part lists for AMIQ basic unit.

- For circuit diagrams, part lists, component plan and XY list for "IQ Analog/Digital Unit" refer to chapter 6.
- For circuit diagrams, part lists, component plan and XY list for "Differential Outputs" refer to chapter 7.
- Chapter 8 of this manual contains the installation instructions, circuit diagrams, part list, component plan and XY list for "Digital I/Q Outputs" (AMIQ-B3).
- Following this document register, the ATX Mainboard manual may be filed which is supplied with the instrument. Prior to filing, it must be punched accordingly.

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# Circuit Diagram

# Part List

## for AMIQ Basic Unit

**1110.2003.02**

# INSTRUCTION SHEET FOR LPQ15X SERIES
# (EINBAU ANLEITUNG FEUR LPQ15X SERIE)

## OUTPUT RATINGS
## (AUSGANGS WERTE)

| MODEL (MODEL) | OUTPUT - VOLTAGE (AUSGANGS SPANNUNG) (V) | CONVECTION COOLING (BEI RUHENDER LUFT) | | | 30 CFM FORCE AIR COOLING (BEILUFTSTROM MIT 30 CFM) | | |
|---|---|---|---|---|---|---|---|
| | | MAX. OUTPUT CURRENT (MAXIMALE AUSGANGS STROM) (A) | MAX. OUTPUT POWER (MAXIMALER AUSGANGS LEISTUNG) (W) | | MAX. OUTPUT CURRENT (MAXIMALE AUSGANGS STROM) (A) | MAX. OUTPUT POWER (MAXIMALER AUSGANGS LEISTUNG) (W) | |
| | | | with cover (mit abdeckung) | without cover (ohne abdeckung) | | with cover (mit abdeckung) | without cover (ohne abdeckung) |
| LPQ152 | +5 | 15.0 | 75 | 110 | 22.0 | 130 | 150 |
| | +12 | 6.0 | | | 8.0 | | |
| | -12 | 2.0 | | | 2.5 | | |
| | 5 to 25 | 2.5 | | | 3.0 | | |
| LPQ153 | +5 | 15.0 | 75 | 110 | 22.0 | 130 | 150 |
| | +15 | 4.8 | | | 6.4 | | |
| | -15 | 1.6 | | | 2.0 | | |
| | 5 to 25 | 2.5 | | | 3.0 | | |
| LPQ154 | +5 | 15.0 | 75 | 110 | 22.0 | 130 | 150 |
| | +12 | 6.0 | | | 8.0 | | |
| | -12 (OPTIONAL) | 2.0 | | | 2.5 | | |
| | 24 (OPTIONAL) | 3.5 | | | 4.5 | | |

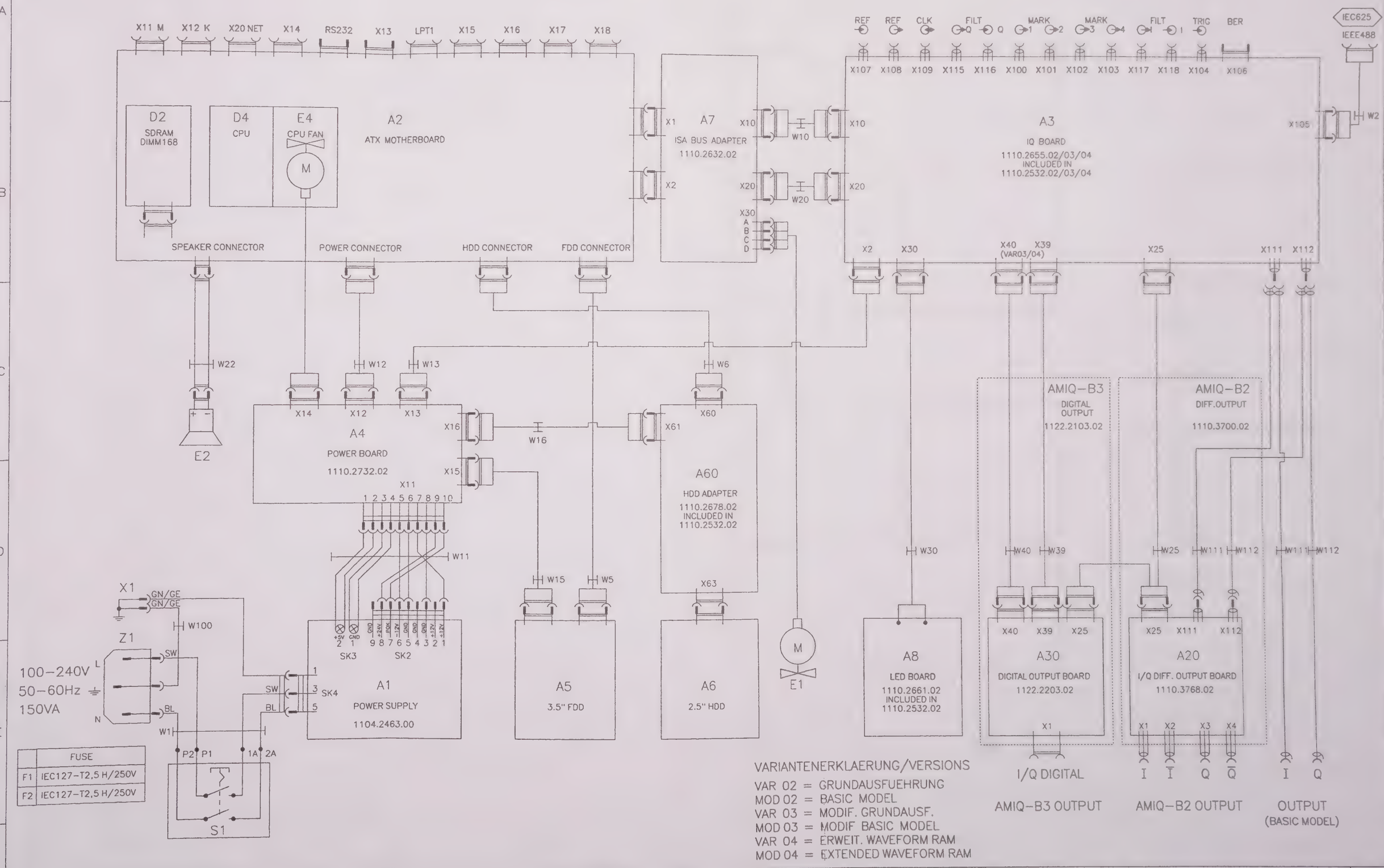
## CONNECTOR PIN DESIGNATION
## (STIFT BELEGUNG AM STECKER)

| OUTPUT CONNECTOR (AUSGANGS STECKER) | | LPQ152 | LPQ153 | LPQ154 |
|---|---|---|---|---|
| SK1 | Pin (Stift) 1 | INHIBIT -ve | INHIBIT -ve | INHIBIT -ve |
| | Pin (Stift) 2 | INHIBIT +ve | INHIBIT +ve | INHIBIT +ve |
| | Pin (Stift) 3 | +12V | +15V | +12V |
| | Pin (Stift) 4 | No Connection | No Connection | No Connection |
| | Pin (Stift) 5 | Common | Common | Common |
| | Pin (Stift) 6 | -Sense | -Sense | -Sense |
| | Pin (Stift) 7 | +Sense | +Sense | +Sense |
| | Pin (Stift) 8 | C-Share | C-Share | C-Share |
| SK2 (OPTIONAL) | Pin (Stift) 1, 2 | +12V | +15V | +12V |
| | Pin (Stift) 3,4,5 | Common | Common | Common |
| | Pin (Stift) 6 | -12V | -15V | -12V |
| | Pin (Stift) 7 | POK | POK | POK |
| | Pin (Stift) 8 | 5 to 25V (Float) | 5 to 25V (Float) | +24V |
| | Pin (Stift) 9 | Common (Float) | Common (Float) | Common |
| SK3 (OPTIONAL) | T.B.-2 | +5V | +5V | +5V |
| | T.B.-1 | Common | Common | Common |

| INPUT CONNECTOR (EINGANGS STECKER) | | LPQ152 | LPQ153 | LPQ154 |
|---|---|---|---|---|
| SK4 | Pin (Stift) 1 | GND (ERDE) | GND (ERDE) | GND (ERDE) |
| | Pin (Stift) 2 | Pin Removed (Stift Enfernt) | Pin Removed (Stift Enfernt) | Pin Removed (Stift Enfernt) |
| | Pin (Stift) 3 | Live (Spannungs-Fuehrend) | Live (Spannungs-Fuehrend) | Live (Spannungs-Fuehrend) |
| | Pin (Stift) 4 | Pin Removed (Stift Enfernt) | Pin Removed (Stift Enfernt) | Pin Removed (Stift Enfernt) |
| | Pin (Stift) 5 | Neutral | Neutral | Neutral |

## CONNECTOR OF OUTPUT WIRE HARNESS ASSEMBLY (OPTIONAL FOR LPQ154)

| PIN DESIGNATION | OUTPUT |
|---|---|
| PIN 1-5 | +5V |
| PIN 6-7, 9-11 | COMMON |
| PIN 12 | +12V |




| | FUSE |
|---|---|
| F1 | IEC127–T2,5 H/250V |
| F2 | IEC127–T2,5 H/250V |

VARIANTENERKLAERUNG/VERSIONS

VAR 02 = GRUNDAUSFUEHRUNG
MOD 02 = BASIC MODEL
VAR 03 = MODIF. GRUNDAUSF.
MOD 03 = MODIF BASIC MODEL
VAR 04 = ERWEIT. WAVEFORM RAM
MOD 04 = EXTENDED WAVEFORM RAM

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ROHDE&SCHWARZ

| Aend. Zust. | Aenderunsmitteilung | Datum | Name |
|---|---|---|---|
| 03 | | | |

| | Datum | Name |
|---|---|---|
| 1GPK | | |
| Bearb. | 99–03–16 | SR |
| Gepr. | 99–03–16 | SR |
| Norm | | |

Benennung: AMIQ I/Q MODULATOR

Zeichn.–Nr.: 1110.2003.01 S

BLATT–NR.: 1+

PLOTT: 99–03–15 SCHWAIGE | ZU GERAET AMIQ | REG. I. V. 1110.2003 V | ERSTE Z. 1110.2003.01

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| . | XX VARIANTENERKLAERUNG<br>IDENTIFICATION OF MODELS<br>VAR 02 = GRUNDAUSFUEHRUNG<br>MOD 02 = BASIC MODEL<br>VAR 03 = MODIF.GRUNDAUSF.<br>MOD 03 = MODIF.BASIC MODEL<br>VAR 04 = ERW.WAVEFORM RAM<br>MOD 04 = EXT.WAVEFORM RAM | | | | |
| .. | XX ZUGEH.STROML.<br>CIRC.DIAGR.<br>1110.2003.01 S | | | | |
| A1 | GJ SCHALTNETZT. 85-264V<br>SWITCHING POWER SUPPLY | 1104.2463.00 | ASTEC | LPQ154-C | |
| A2 | ATX-BOARD D-DECK R<br>ATX MAIN BOARD DOUBLE | 1110.3216.00 | MICRO_STAR | MS5169 | |
| A3 | ED IQ BOARD<br>IQ BOARD<br>NUR VAR/ONLY MOD: 02<br>ENTHALTEN IN/INCLUDED IN<br>1110.2532.02<br>HIERZU STROML. 1110.2532 S<br>SEE CIRC.DIAGR.1110.2532 S | 1110.2655.02 | | | |
| A3 | ED IQ BOARD<br>IQ BOARD<br>NUR VAR/ONLY MOD: 03<br>ENTHALTEN IN/INCLUDED IN<br>1110.2532.03<br>HIERZU STROML. 1110.2532 S<br>SEE CIRC.DIAGR.1110.2532 S | 1110.2655.03 | | | |
| A3 | ED IQ BOARD<br>IQ BOARD<br>NUR VAR/ONLY MOD: 04<br>ENTHALTEN IN/INCLUDED IN<br>1110.2532.04<br>HIERZU STROML. 1110.2532 S<br>SEE CIRC.DIAGR.1110.2532 S | 1110.2655.04 | | | |
| A4 | ED POWER BOARD<br>POWER BOARD<br>HIERZU STROML. 1110.2732 S<br>SEE CIRC.DIAGR.1110.2732 S | 1110.2732.02 | | | |
| A5 | GM 3,5" FLOPPY DRIVE STD.<br>FLOPPY DRIVE 3.5" | 0048.4935.00 | TEAC | FD-235HF-A291 | |
| A6 | GM 2,5" FESTPL. 3,24 GB<br>2.5" HARDDISK 3.24 GB<br>NUR VAR/ONLY MOD: 02 03 | 0048.7934.00 | IBM_DEUTSC | DBCA 203240 | |
| A6 | GM 2,5" FESTPL. 6,48 GB<br>2.5" HARDDISK 6,48 GB<br>NUR VAR/ONLY MOD: 04 | 0048.7992.00 | IBM_DEUTSC | DBCA 206480 | |
| A7 | EE ISA BUS ADAPTER<br>ISA BUS ADAPTER<br>HIERZU STROML. 1110.2632 S<br>SEE CIRC.DIAGR.1110.2632 S | 1110.2632.02 | | | |
| A8 | ED LED BOARD<br>LED BOARD<br>ENTHALTEN IN/INCLUDED IN<br>1110.2532.02/03/04 | 1110.2661.02 | | | |
| A60 | ED HDD ADAPTER<br>HDD ADAPTER<br>ENTHALTEN IN/INCLUDED IN<br>1110.2532.02/03/04 | 1110.2678.02 | | | |
| D2 | BC 32MB DIMM168-MOD.1ON<br>IC MEMORY MODULE<br>NUR VAR/ONLY MOD: 02 | 0048.5519.00 | MICROSEMIC | MSC864V463DT4ESG7CFL | |
| D2 | BC 32MB DIMM168-MOD.1ON<br>IC MEMORY MODULE<br>NUR VAR/ONLY MOD: 03 04 | 0048.5519.00 | MICROSEMIC | MSC864V463DT4ESG7CFL | |
| D3 | BC 32MB DIMM168-MOD.1ON<br>IC MEMORY MODULE<br>NUR VAR/ONLY MOD: 04 | 0048.5519.00 | MICROSEMIC | MSC864V463DT4ESG7CFL | |
| D4 | BC CPU FUER SOCKET 7<br>SOCKET 7 CPU | 1078.3562.00 | IDT | C6-PSME180GA | |
| E1 | DX LUEFTEREINHEIT<br>FAN UNIT | 1090.3381.00 | | | |
| E2 | EL LAUTSPRECHER0,32 250HM<br>LOUDSPEAKER | 0840.6336.00 | PHILIPS_CO | WD 01621 Y 25 | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| E4 | GM LUEFTER F. SOCKET 7<br>FAN FOR SOCKET 7 CPU | 1078.3579.00 | K&K_MEISTE | 1078.3579.00 | |
| F1 | SS SCHMELZ.T2,5HIEC127-2V<br>FUSE | SS 0020.7575.00 | WICKMANN | T2.5 H NR.19181 | |
| F2 | SS SCHMELZ.T2,5HIEC127-2V<br>FUSE | SS 0020.7575.00 | WICKMANN | T2.5 H NR.19181 | |
| S1 | SB NETZSCHALTER 2XA O.KN.<br>POWER-SWITCH | SB 1030.8387.00 | SCHADOW | 100100-7043 | |
| W1 | DX PRIMAER POWER CABLE | 1110.2884.00 | | | |
| W2 | DY IEC-BUS KABEL W2<br>IEC BUS CABLE W2 | 1080.9758.00 | | | |
| W5 | XX BEMERKUNG<br>PLEASE NOTE<br>FDD DATA CABLE<br>ENTHALTEN IN/INCLUDED IN<br>A2 | | | | |
| W6 | XX BEMERKUNG<br>PLEASE NOTE<br>HDD DATA CABLE<br>ENTHALTEN IN/INCLUDED IN<br>A2 | | | | |
| W10 | DY AT ADAPTER CABLE | 1110.2832.00 | | | |
| W11 | DX SECONDARY POWER CABLE | 1110.2890.00 | | | |
| W12 | DX ATX POWER CABLE | 1110.2949.00 | | | |
| W13 | DX IQ POWER CABLE | 1110.2903.00 | | | |
| W15 | DX FDD POWER CABLE | 1078.3027.00 | | | |
| W16 | DX HDD POWER CABLE | 1110.2926.00 | | | |
| W20 | DY AT ADAPTER CABLE | 1110.2832.00 | | | |
| W22 | DX SPEAKER CABLE | 1110.2955.00 | | | |
| W100 | DX SCHUTZLEITERKABEL<br>PE CABLE | 1090.3881.00 | | | |
| W111 | DV FRONT OUTPUT CABLE<br>NUR VAR/ONLY MOD: 02 | 1110.2932.00 | | | |
| W111 | DV I/Q FRONT OUTPUT CABLE<br>CABLE<br>NUR VAR/ONLY MOD: 03 04 | 1110.2878.00 | | | |
| W112 | DV FRONT OUTPUT CABLE<br>NUR VAR/ONLY MOD: 02 | 1110.2932.00 | | | |
| W112 | DV I/Q FRONT OUTPUT CABLE<br>CABLE<br>NUR VAR/ONLY MOD: 03 04 | 1110.2878.00 | | | |
| X1 | FV FLACHSTECKER GR 6,3<br>CONNECTOR | FV 0543.6705.00 | AMP | 141878-2 | |
| Z1 | FN NETZFILTER M.2SICH.+ST<br>POWER FILTER | 1026.3426.00 | CORCOM | F-7385D | |

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ROHDE&SCHWARZ

# Circuit Documents

**for Module**

## IQ Analog/Digital Unit

**1110.2532.02**

from ATX BOARD

AT-BUS DATA

AT-BUS ADRESS

X10/X20

IEC625

IEEE488

X105

IEC BUS CONTROLLER

40 MHz

G2

100 MHz

EEPROM

ANALOG SETUP

D7

ADDRESS GENERATOR

24

6

D2

CONTROLLER

TRIGIN

DIG_CLK_1

SINGLE_CLK

DIG_CLK_2

SINGLE_CLK

SYN_OUT_CLK

DIG_CLK_1

DIG_CLK_2

SINGLE_CLK

SLOW

FAST

SRCLK

DAC_CLK

MARKER_CLK

DIG_OUT_CLK

BER_CLK

SRCLK1

SRCLK2

SRCLK3

SRCLK4

SRCLK5

SRCLK6

SRCLK

READDQ

WRITEDQ

LATCH

DQ-BUS

LATCH

LDQ-BUS

16

SRADR-BUS

CRTL

SRMUX

SDRAM

SDRAM

DI-BUS

SRSTROBE

ENAWR

WRITEDI

LATCH

DI-BUS

LATCH

LDI-BUS

READDI

16

DIG_OUT_Q CONNECTOR

SRCLK3

16

LATCH

14

QDATA

4

4

LATCH

TRIGOUT

14

IDATA

16

DIG_OUT_I CONNECTOR

LATCH

X40

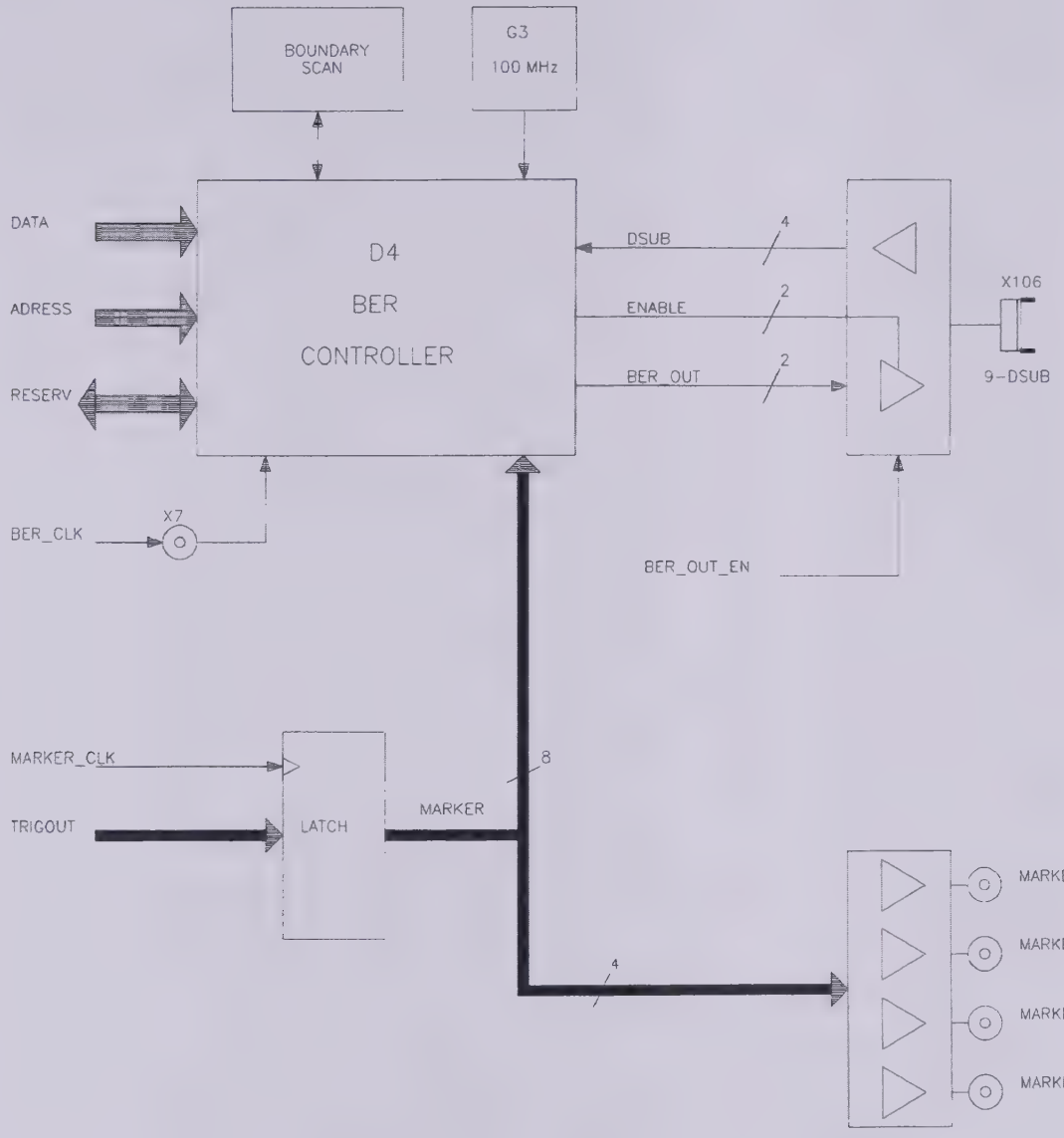
SRCLK3

SRCLK5

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

BLOCK DIAGRAM DIGITAL UNIT

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 06.04 | | | | | 1GPK | DATUM | NAME | BENENNUNG | | |
| | | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT | | |
| | | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT | | |
| | | | | | NORM | | | TOP/TOP.1 | | |
| | | | | | PLOTT | 99-07-06 | SCHWAIGE | | | |
| | | | | | | | | ZEICHN.-NR. | | BLATT-NR. |
| | | | | | | | | ROHDE&SCHWARZ | 1110.2532.01 S | 1 + |
| AEND. IND. | AENDERUNGS-MITTEILUNG | | DATUM | NAME | ZU GERAET AMIQ | | | REG.I.V. 1110.2003 | ERSTE Z. 1110.2003.01 | |




(C) ROHDE&SCHWARZ
DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

# BLOCK DIAGRAM BER UNIT

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06 04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/TOP.2 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| | | | | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| | | | | | | | BLATT-NR. 2 + |
| AEND. IND | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | REG.V 1110 2003 ERSTE Z 1110 2003 0 |

1 2 3 4

SKEW_ADJ
D
A
Q_DAC_CLK
CLK BUFFER
DAC_CLK
max 100 MHz
I_DAC_CLK
DATA LATCH
SRCLK4
WAVEFORM
I_DATA
14
HIGH SPEED WAVEFORM DAC
DIFFERENTIAL AMPLIFIER
DIAG5
IDAC-OUTPUT
OUTPUT AMPLTUDE
1Vpp
INTO 50 OHM
50 OHM
OUTPUT PROTECTION
I-FILTER EXTERN
FILTER OFF
LOW PASS FILTER
2,5 MHz
LOW PASS FILTER
25 MHz
I-FILTER_SELECT
INPUT AMPLTUDE
1Vpp
50 OHM
INPUT PROTECTION
G=6dB
DIAG7
EXT-IFILTER
AMPL FIX/VAR
OUTPUT AMPLIFIER
OUTPUT ATT
0 dB
20 dB
40 dB
OVER VOLTAGE PROTECTION
I-OUTPUT
Output Amplitude:
fix:
max 1Vpp into 50 Ohm
var:
max 2Vpp into 50 Ohm
max +/- 2V
I_DIAG_EN
DIAG11
I-OUTPUT
I_AMPL_ADJ
I_OFFSET_ADJ1
U-REF
1,2V
U-REF
DIAG2
Uref ADJ-DAC
VARIABLE ATTENUATOR
AMPL CNTRL
OFFSET
DIAG9
I-AMPL-VAR
HF DETECTOR
DIAG12
I-HF_AMPL
I-AMPL_VAR
U-REF
I-OFFSET_ADJ2
I- Q- PHASE METER
from Q-CHANNEL
DIAG15
I/Q PHASE

# I-CHANNEL

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 06.04 | | | |

| 1GPK | DATUM | NAME |
|---|---|---|
| BEARB. | | SR |
| GEPR. | | SR |
| NORM | | |
| PLOTT | 99-07-06 | SCHWAIGE |

ROHDE&SCHWARZ

ZU GERAET AMIQ

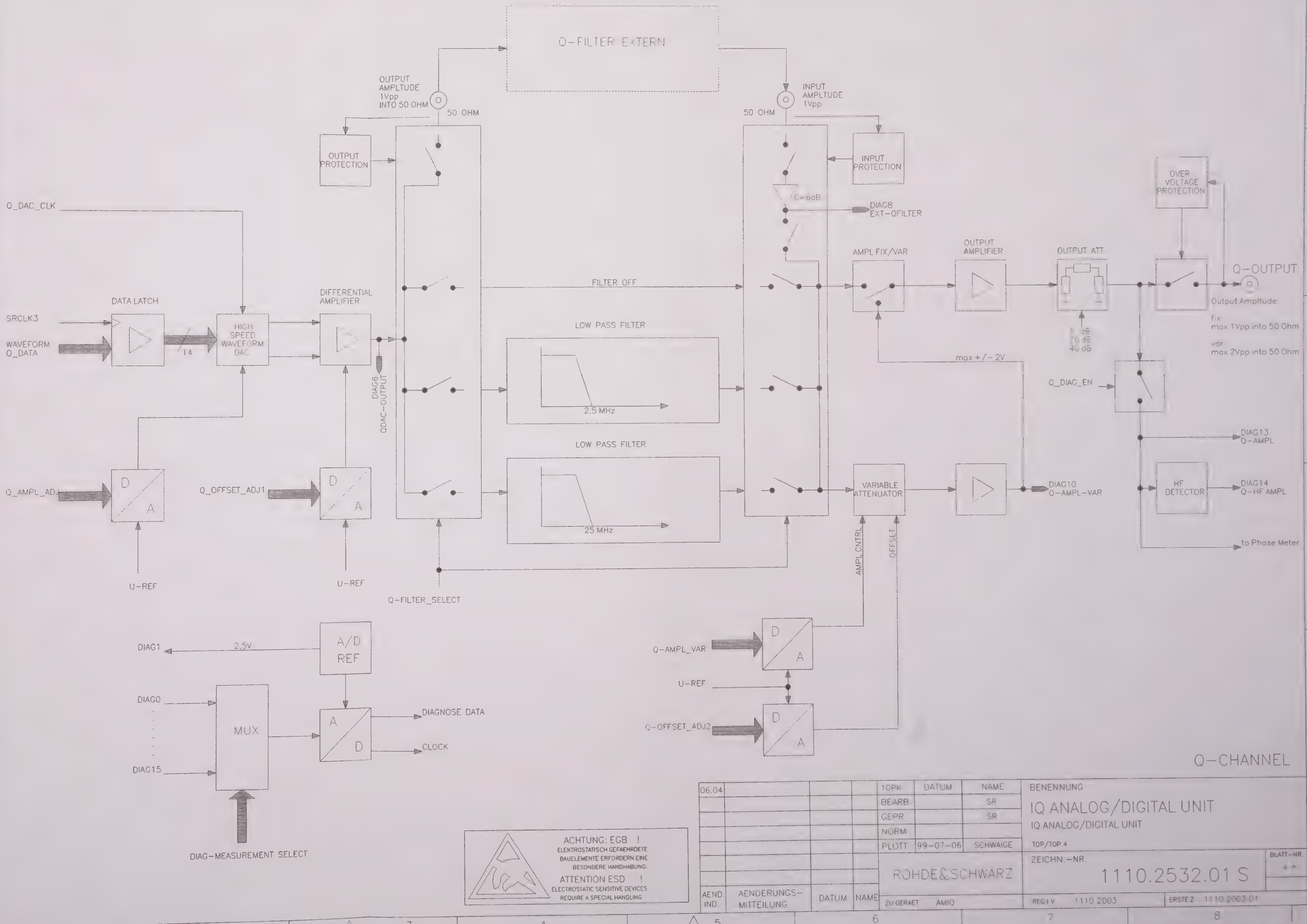
BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/TOP.3

ZEICHN.-NR. 1110.2532.01 S

BLATT-NR. 3 +

REG.I.V. 1110.2003

ERSTE Z. 1110.2003.01




ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 06.04 | | | |

| | DATUM | NAME |
|---|---|---|
| TGPK | | |
| BEARB | | SR |
| GEPR | | SR |
| NORM | | |
| PLOTT | 99-07-06 | SCHWAIGE |

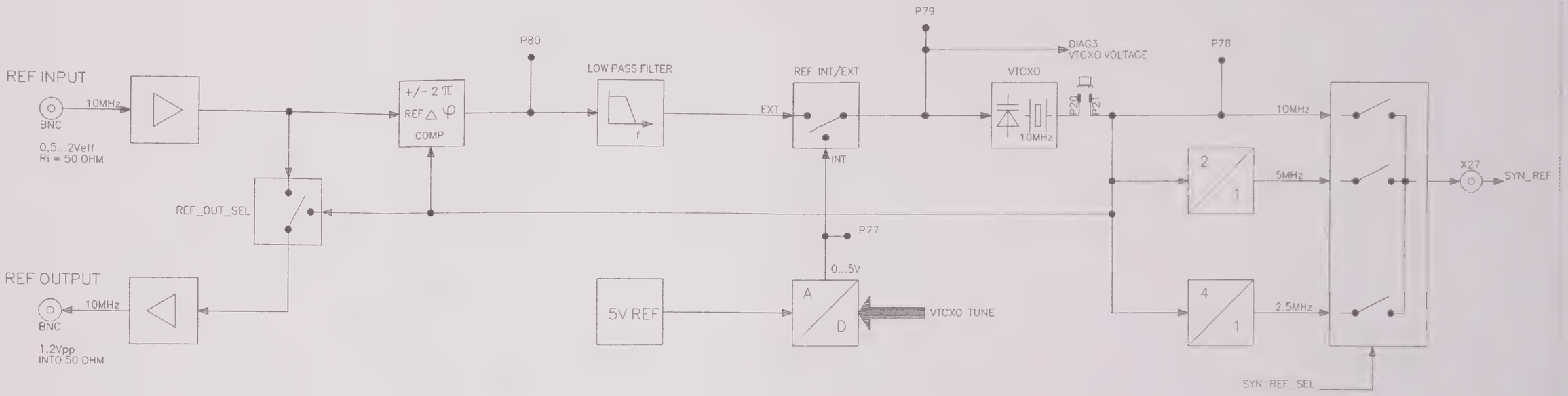
BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/TOP.4

ROHDE&SCHWARZ

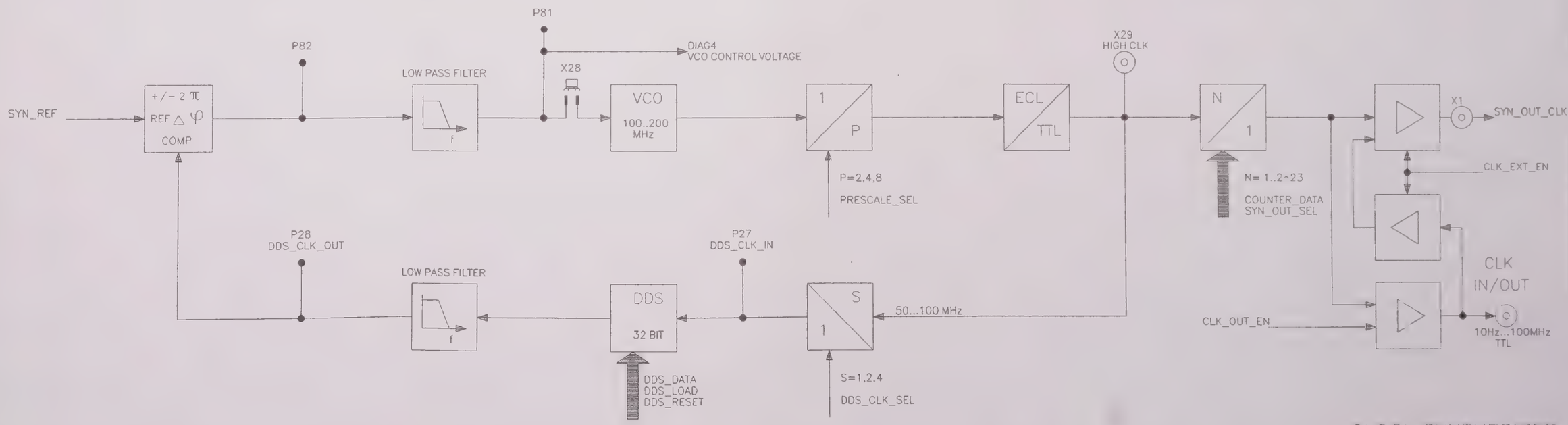
ZEICHN.-NR. 1110.2532.01 S

BLATT-NR. 4 +

ZU GERAET AMIQ | REGI V 1110 2003 | ERSTE Z 1110.2003.01




10MHz REFERENCE OSZILLATOR




CLOCK SYNTHESIZER

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 06.04 | | | |

| | DATUM | NAME |
|---|---|---|
| 1GPK | | |
| BEARB. | | SR |
| GEPR. | | SR |
| NORM | | |
| PLOTT | 99-07-06 | SCHWAIGE |

ROHDE&SCHWARZ

ZU GERAET AMIQ

BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/TOP.5

ZEICHN.-NR. 1110.2532.01 S

BLATT-NR 5 +

REG.I.V. 1110.2003 ERSTE Z. 1110.2003.01

TRIGGER INPUT

X104

X107 X108 X109 X115 X116 X117 X118

## DIGITAL UNIT

TRIGOUT
QDATA
IDATA
IAIDI
IAIDO
IAIRD
IAIWR
IAICLK
IGIDI
IGIDO
IGIRD
IGIWR
IGICLK
WREN
SRCLK3
SRCLK4
DIVRES
RESETDRV
RESERV
DATA
ADRESS
I_DAC_CLK
Q_DAC_CLK
MARKER_CLK
BER_CLK
IOW
IOR
IOCS16
DIGRESET
IRQ10
IRQ11
AEN
REFRESH
BSCAN

TRIGIN
DIG_OUT_EN (6/7B,8/8A,24/4E) → DIG_OUT_EN
SYN_OUT_CLK (6/7B,10/1A,22/8A) → SYN_OUT_CLK
SKEW_TUNE (6/7C,10/5B,21/3D) → SKEW_TUNE

DIGITAL_UNIT_4 BLATT 7,8,9,10,11

## ANALOG UNIT

QDATA
IDATA
IAIDI
IAIDO
IAIRD
IAIWR
IAICLK
IGIDI
IGIDO
IGIRD
IGIWR
IGICLK
WREN
SRCLK3
SRCLK4
DIVRES
RESETDPV
RESERV
PROG
I_DAC_CLK
Q_DAC_CLK

REFIN
REFOUT
CLK_IN/OUT
Q_FILT_EXT_OUT
Q_FILT_EXT_IN
I_FILT_EXT_OUT
I_FILT_EXT_IN
DIG_OUT_EN → DIG_OUT_EN (6/10,8/8A,24/4E)
SYN_OUT_CLK → SYN_OUT_CLK (6/10,10/1A,22/8A)
SKEW_TUNE → SKEW_TUNE (6/10,10/5B,21/3D)
I_OUTPUT
Q_OUTPUT

ANALOG_UNIT_5
BLATT 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,29

## BER UNIT

PROG
TRIGOUT
RESERV
DATA
ADRESS
MARKER_CLK
BER_CLK
IOW
IOR
IOCS16
DIGRESET
IRQ10
IRQ11
AEN
REFRESH
BSCAN

BER_UNIT_6 BLATT 28

X110 X111

## FROM POWER SUPPLY

X2 7 — L83 625R(Z) — +24VA
C296 100U 35V, C95 10N, C96 10N, C177 10N

X2 6 — L84 625R(Z) — +12VA
C584 10U 25V, C179 33N, C182 33N

X2 4 — L85 625R(Z) — −12VA
C582 10U 25V, C180 33N, C181 33N

X2 3 — L86 625R(Z) — +5VA
C583 100U 20V, C382 100N

X2 1 — L81 625R(Z) — +5V
X2 2, X2 5, X2 8, X2 9, X2 10

N1 LT1084CP
C380 100N, C664 100U 20V, C56 100U 20V, C1 1U, R49 200, C57 100U 25V, C58 22U 35V, R62 330

Bindende Angaben ueber Varionten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

# POWER SUPPLY INPUT, SIGNAL CONNECTORS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 06.04 | | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | | BEARB | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | | NORM | | | TOP/TOP 6 |
| | | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| | | | | | ZU GERAET AMIQ | | | BLATT-NR 6 + |
| | | | | | REG.NV 1110 2003 | | | ERSTE Z 1110 2003 01 |

DATA (7/8A,8/1A,9/1A,11/1A,28/1A)

ADRESS (7/8A 11/1A,28/1A)

D3 74LVT14DB — DIGRESET (7/4C,7/8C,28/3C); RESETDRV (11/1C)

C669 1N — R743 100

+5V

R3 10K, R4 10K, R5 10K, R6 10K, R7 10K, R8 10K, R9 10K, R10 10K

D8 74HCT688T — COMP — G1, P=Q

SA2 SA3 SA4 SA5 SA6 SA7 SA8 SA9

AEN (7/4C,11/1B,28/1B,28/3C)

R67 150 — IOW (7/4C,11/1C,28/3C) — C60 22P

R66 150 — IOR (7/4C,11/1C,28/3C) — C59 22P

REFRESH (7/4C,28/3C)

IOCHRY (11/1B); IRQ7 (11/1C); SBHE (11/1B)

IOCS16 (7/4C,11/1C,28/3C); IRQ10 (7/4C,28/3C); IRQ11 (7/4C,28/3C)

DIVRES (22/2A) — R747 680

DACK5 (11/1C); DRQ5 (11/1C)

C670 1N — R753 100 — FAST (7/5C,10/1C)

+5V — G2 100MHZ — Q1 — C2 100N — R84 51 — 100MHZ (7/7C) — R56 10K

DIG_CLK_1 (10/4A)

TRIGIN (7/8C) — R53 221 — V1 BAV99 — D3 74LVT14DB

R13 10K, R14 10K, R96 1K

R748 10K

SDRAM_ENA (7/8B)

RESERV (7/8C,28/3C) — X37 RES1, X36 RES2, X37 RES3, X36 RES4, X37 RES5, X37 RES6

SDRAM_ENA; RESERV2; RESERV3; RESERV4; RESERV5; RESERV6

ACK; MSEL0; MSEL1

R779 10K

TDI; TMS; TCK; TDO

X29 X29 X29 X29 X29 X29 X29 X29 X29 X29 — BOUNDARY SCAN — TOP VIEW

D7 EPF10K10TC-4

SD0 SD1 SD2 SD3 SD4 SD5 SD6 SD7 SD8 SD9 SD10 SD11 SD12 SD13 SD14 SD15

SA0 SA1 SA10 SA11 SA12 SA13 SA14 SA15

CS; NCS; NCE; NSTATUS; CONFDONE; CEO

IOW (7/2C,11/1C,28/3C); IOR (7/2C,11/1C,28/3C); IOCS16 (7/2E,11/1C,28/3C); DIGRESET (7/2A,7/8C,28/3C)

IOWP; IORD; IOCS16; NCONFIG

IRQ10 (7/2E,28/3C); IRQ11 (7/2E,28/3C); AEN (7/2C,11/1B,28/1B,28/3C); REFRESH (7/2C,28/3C)

IRQ10; IRQ11; AEN; RFR

OSCLK; GCLK; CLK100; TRIGIN

R716 10K, R717 10K, R718 10K, R719 10K

AOUT0 … AOUT22

REQ; UPC0; UPC1; CONREADY; RUN; TON; END; MUX; UPDA; FAST; /FAST; SEQRESERV; TRIGRESERV; CLKRESERV; CMDRESERV

READ DI; READ DO; WRITE DI; WRITE DO; SEQCLK

READDI (9/4A); READDQ (8/4A); WRITEDI (9/1A); WRITEDQ (9/1A)

DI1; DO1; RD1; WR1; CLK1

IAIDI (18/1C); IAIDO (18/1E); IAIRD (18/1D); IAIWR (18/1D); IAICLK (18/1E)

DI2; DO2; RD2; WR2; CLK2

IGIDI (18/4C); IGIDO (18/4E); IGIRD (18/4D); IGIWR (18/4D); IGICLK (18/4E); WREN (18/1C)

EEDATA; EECLK; WREN; LED0; LED1; LED2

R712 10K, R714 10K, R713 10K

R1 10K, R751 10K

R54 10K, R55 10K — +3.3V

R723 470

R52 680, R51 680, R50 680, R17 10K, R664 10K, R16 10K

+3 3V — LED BOARD CONNECTOR — X30 X30 X30 X30 X30 X30 X30 X30 X30 X30

D2 EPM7128SQC100-7

SEQRESERV; SADR0 … SADR22; CLKSEL; CLK1; CLK2; CLK; CLKRESERV; SEQCLK; TDI; TMS; TCK; TDO

UPDA (7/8C); SLOW (10/1B); FAST (7/3C,10/1C)

R2 10K — +3 3V — R15 10K

(10/4A) DIG_CLK_2 16MHZ (7/3C) (10/3C) SRCLK6

R19 10K — +3.3V

R750 680 — SINGLE_CLK (10/1B)

D1 X24164S8 — SCL, TEST_SDA, A0, A1, A2 — ADR=010B=2

X31 X31 X31 X31 X31 — BOUNDARY SCAN — TOP VIEW

MUX; DS; WE; RAS; CAS

SRMUX (8/5A,9/5A)

SRSTROBE (8/3A,9/3A); SRWE (8/1C,9/1C); SRRAS (8/1C,9/1C); SRCAS (8/1C,9/1C)

P24; P25; P34

SRADR (7/8C,8/1D,9/1D)

ADROUT0 … ADROUT15; BA0; BA1

SDRAM_ENA; RESERV1 … RESERV8; ENAWP

RESET; CLKOUT — R780 10K — +3.3V — RR3 10K

ROCAN (28/1E)

Bindende Angaben ueber varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG ESB
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

C15 100N — +5V — D8 74HCT688T

C17 100N — +3 3V — D3 74LVT14DB

C4 100N, C5 100N, C6 100N, C7 100N, C8 100N, C9 100N — +3.3V — D7 EPF10K10TC-4 — VCCIO, VCCINT, GND

C10 100N, C11 100N, C12 100N, C13 100N, C14 100N — +3.3V — D2 EPM7128SQC100-7 — VCCIO, VCCINT, GND

C16 100N — +5V — D1 X24164S8

| | | | | | |
|---|---|---|---|---|---|
| 06.04 | | | 1GPK | DATUM | NAME |
| | | | BEARB. | | SR |
| | | | GEPR. | | SR |
| | | | NORM | | |
| | | | PLOTT | 99-07-06 | SCHWAIGE |

ROHDE&SCHWARZ

ZU GERAET AMIQ

BENENNUNG

IQ ANALOG/DIGITAL UNIT

IQ ANALOG/DIGITAL UNIT

TOP/DIGITAL_UNIT_4/DIGITAL_UNIT 1

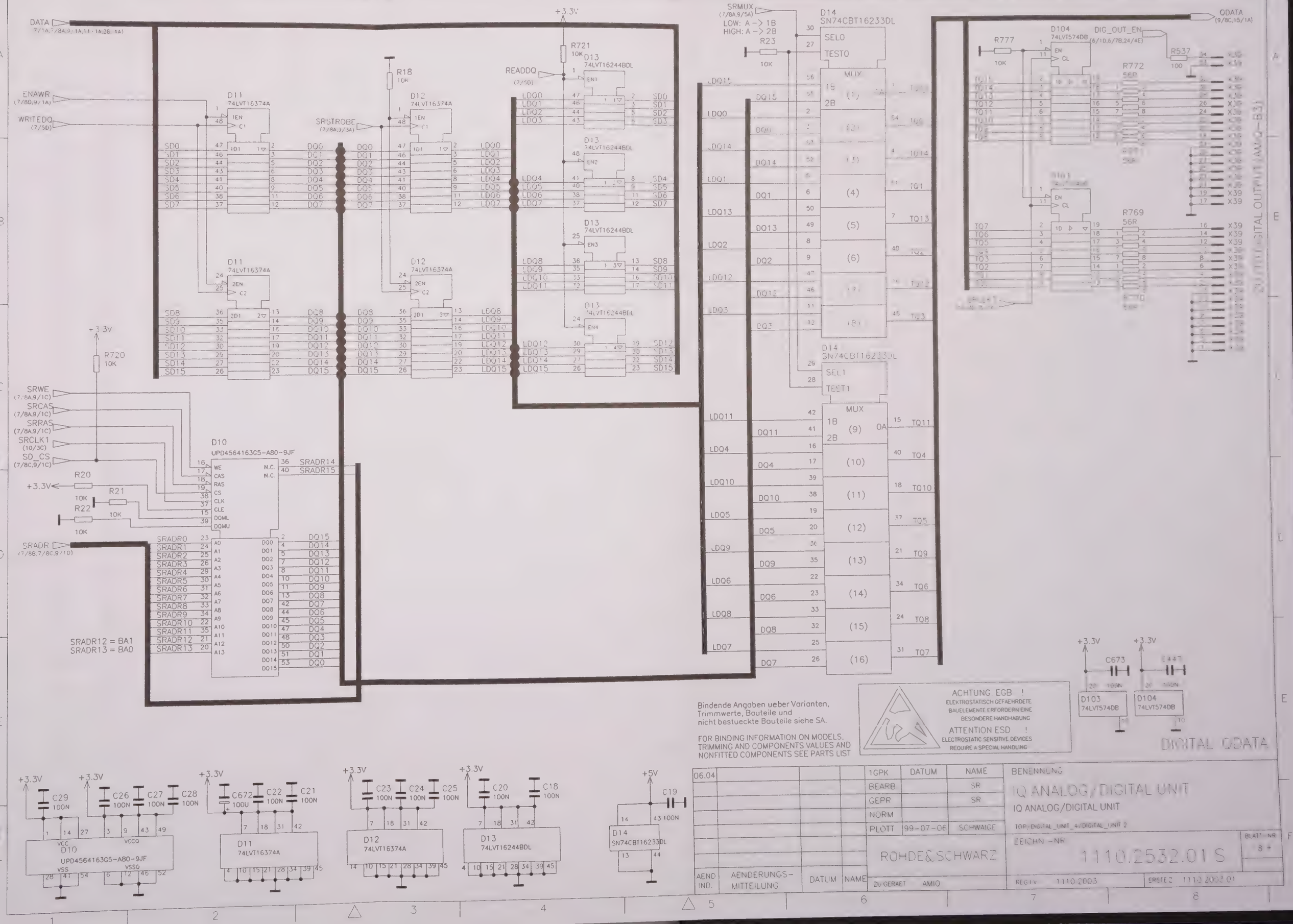
ZEICHN.-NR. 1110.2532.01 S

BLATT-NR

REGIV 1110.2003

ERSTELL 1110.2003 01

AEND 'ND | AENDERUNGS-MITTEILUNG | DATUM | NAME


DATA
7/1A,7/8A,9/1A,11/1A,28/1A1
ENAWR
(7/8D,9/1A)
WRITEDQ
(7/5D)
SRSTROBE
(7/8A,9/3A)
+3.3V
R721
10K
READDQ
(7/5D)
R18
10K
D11
74LVT16374A
D12
74LVT16374A
D13
74LVT16244BDL
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15
LDQ0
LDQ1
LDQ2
LDQ3
LDQ4
LDQ5
LDQ6
LDQ7
LDQ8
LDQ9
LDQ10
LDQ11
LDQ12
LDQ13
LDQ14
LDQ15
+3.3V
R720
10K
SRWE
(7/8A,9/1C)
SRCAS
(7/8A,9/1C)
SRRAS
(7/8A,9/1C)
SRCLK1
(10/3C)
SD_CS
(7/8C,9/1C)
R20
R21
R22
10K
SRADR
(7/8B,7/8C,9/1D)
D10
UPD4564163G5-A80-9JF
SRADR0
SRADR1
SRADR2
SRADR3
SRADR4
SRADR5
SRADR6
SRADR7
SRADR8
SRADR9
SRADR10
SRADR11
SRADR12
SRADR13
SRADR14
SRADR15
SRADR12 = BA1
SRADR13 = BA0
SRMUX
(7/8A,9/5A)
LOW: A -> 1B
HIGH: A -> 2B
R23
10K
D14
SN74CBT16233DL
SEL0
TEST0
SEL1
TEST1
MUX
TQ0
TQ1
TQ2
TQ3
TQ4
TQ5
TQ6
TQ7
TQ8
TQ9
TQ10
TQ11
TQ12
TQ13
TQ14
TQ15
ODATA
(9/8C,15/1A)
D104
74LVT574DB
DIG_OUT_EN
(6/10,6/7B,24/4E)
R537
100
R772
56R
R769
56R
D103
74LVT574DB
X39
+3.3V
C673
100N
C674
100N
C29
C26
C27
C28
C672
100U
C22
C21
C23
C24
C25
C20
C18
C19
100N
+5V
43 100N
ACHTUNG EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING
Bindende Angaben ueber Varianten,
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe SA.
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST
DIGITAL ODATA
06.04
1GPK
DATUM
NAME
BEARB
SR
GEPR
SR
NORM
PLOTT
99-07-06
SCHWAIGE
BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/DIGITAL_UNIT_4/DIGITAL_UNIT 2
ROHDE&SCHWARZ
ZEICHN -NR
1110.2532.01 S
BLATT-NR
8 +
AEND IND.
AENDERUNGS-MITTEILUNG
DATUM
NAME
ZU GERAET AMIQ
REGIV 1110.2003
ERSTELL 1110.2003.01

DATA (7/1A,7/8A,8/1A,11/1A,28/1A)

ENAWR (7/80,8/1A)

WRITEDI (7/5D)

SRSTROBE (7/8A,8/3A)

READDI (7/5C)

+3.3V

D21 74LVT16374A

D22 74LVT16374A

D23 74LVT16244BDL

R722 10K

R25 10K

SD0 SD1 SD2 SD3 SD4 SD5 SD6 SD7 SD8 SD9 SD10 SD11 SD12 SD13 SD14 SD15

DI0 DI1 DI2 DI3 DI4 DI5 DI6 DI7 DI8 DI9 DI10 DI11 DI12 DI13 DI14 DI15

LDI0 LDI1 LDI2 LDI3 LDI4 LDI5 LDI6 LDI7 LDI8 LDI9 LDI10 LDI11 LDI12 LDI13 LDI14 LDI15

SRWE (7/8A,8/1C)

SRCAS (7/8A,8/1C)

SRRAS (7/8A,8/1C)

SRCLK2 (10/3E)

SD_CS (7/8C,8/1C)

D20 UPD4564163G5-A80-9JF

R28 R27 R26 10K

SRADR (7/8B,7/8C,8/1D)

SRADR0 SRADR1 SRADR2 SRADR3 SRADR4 SRADR5 SRADR6 SRADR7 SRADR8 SRADR9 SRADR10 SRADR11 SRADR12 SRADR13 SRADR14 SRADR15

SRADR12 = BA1
SRADR13 = BA0

SRMUX (7/8A,8/5A)

LOW: A -> 1B
HIGH: A -> 2B

R24 10K

D24 SN74CBT16233DL

SEL0 TEST0 SEL1 TEST1

MUX 1B 2B (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) 0A

TI15 TI0 TI14 TI1 TI13 TI2 TI12 TI3 TI11 TI4 TI10 TI5 TI9 TI6 TI8 TI7

D105 74LVT574DB

D106 74LVT574DB

R778 10K

R773 56R

R774 56R

R775 56R

R776 56R

SRCLK4 (10/30,12/1A)

SRCLK5

R772 10K

TI15 TI14 TI13 TI12 TI11 TI10 TI9 TI8 TI7 TI6 TI5 TI4 TI3 TI2 TI1 TI0

X40

TRIGOUT (28/8C)

ODATA

TRIGOUT1 TRIGOUT4 TRIGOUT5

DIGITAL OUTPUT/ANIQ-(13)

C674 C675 100N

C40 C41 C42 C43 C35 C34 C33 C32 C31 C36 C38 C61 C37 100N

Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

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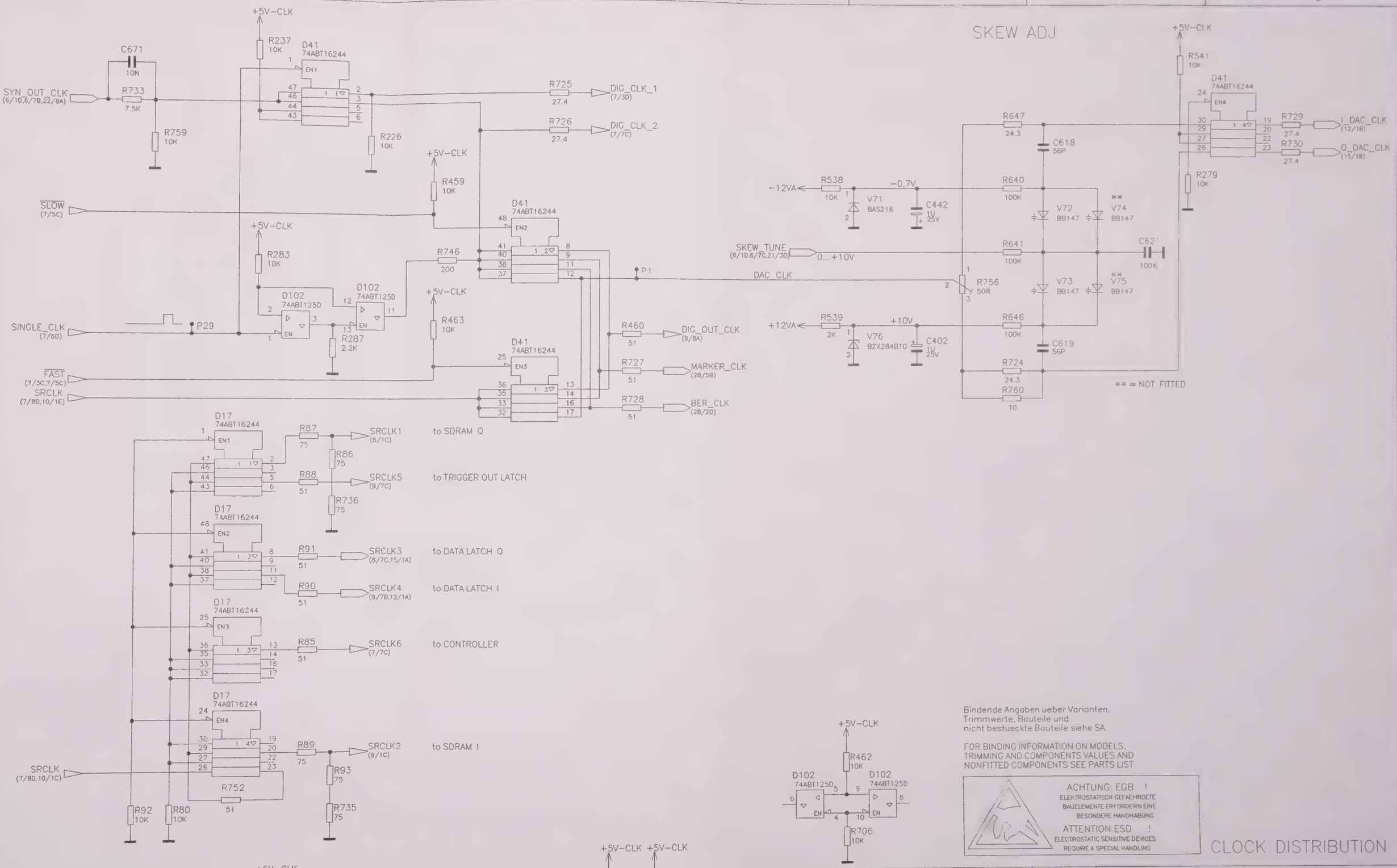
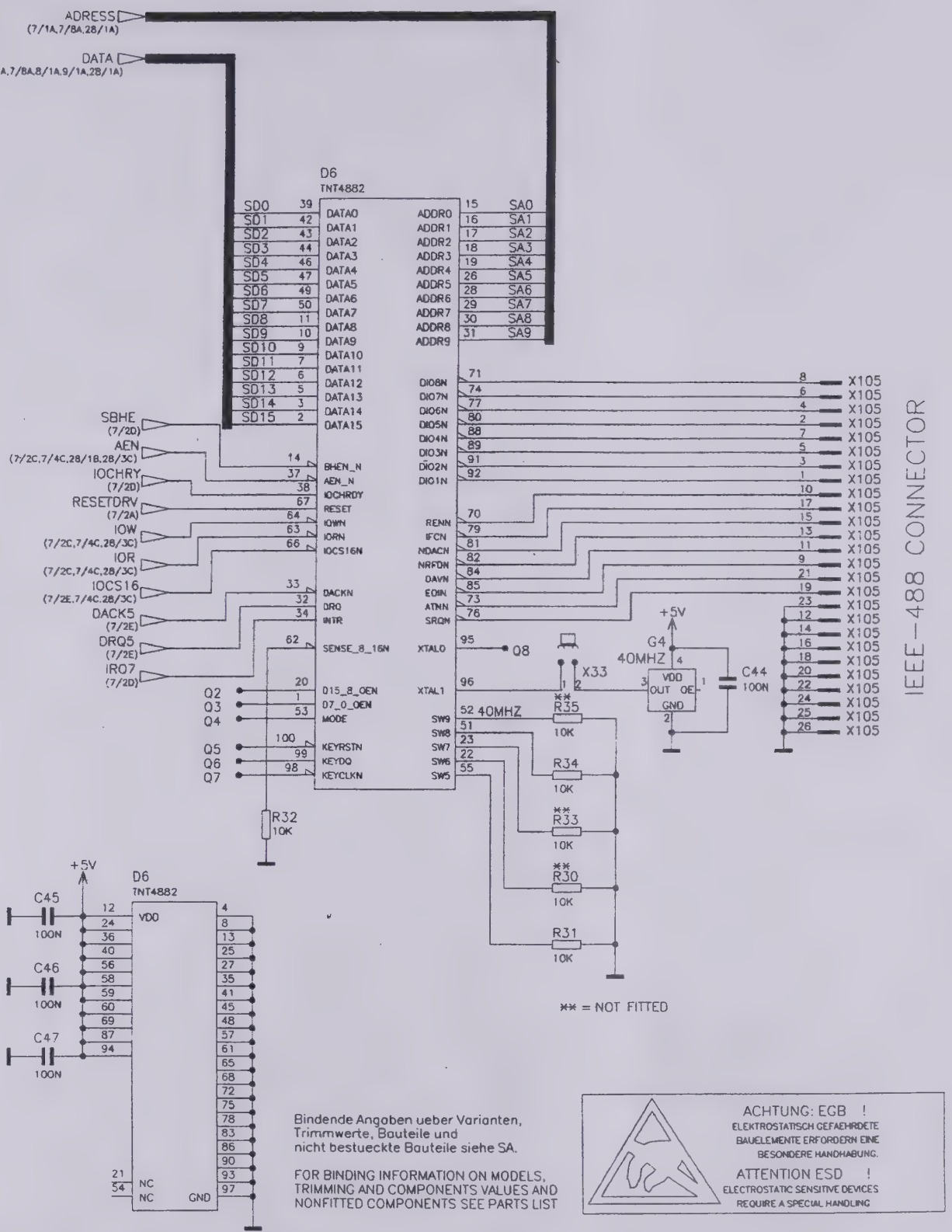
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG

ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

DIGITAL IDATA

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/DIGITAL_UNIT_4/DIGITAL_UNIT.3 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| AEND IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | ROHDE&SCHWARZ |
| | | | | | | | ZEICHN.-NR. 1110.2532.01 S |
| | | | | | | | BLATT-NR 9 + |
| | | | | | | | REG.V 1110.2003 ERSTELL 1110.2003.01 |


SKEW ADJ
SYN_OUT_CLK (6/10,6/7B,22/8A)
SLOW (7/5C)
SINGLE_CLK (7/6D)
FAST (7/3C,7/5C)
SRCLK (7/8D,10/1E)
SRCLK (7/8D,10/1C)
SKEW_TUNE (6/10,6/7C,21/3D)
0...+10V
DAC_CLK
P1
P29
+5V-CLK
-12VA
+12VA
-0,7V
+10V
C671 10N
R733 7.5K
R759 10K
R237 10K
R226 10K
R459 10K
R283 10K
R463 10K
R746 200
R287 2.2K
R725 27.4
R726 27.4
R460 51
R727 51
R728 51
R538 10K
R539 2K
R647 24.3
R640 100K
R641 100K
R646 100K
R724 24.3
R760 10
R756 50R
R541 10K
R279 10K
R729 27.4
R730 27.4
C618 56P
C619 56P
C442 1U 25V
C402 1U 25V
V71 BAS216
V76 BZX284B10
V72 BB147
V73 BB147
V74 BB147
V75 BB147
** = NOT FITTED
DIG_CLK_1 (7/3D)
DIG_CLK_2 (7/7C)
DIG_OUT_CLK (9/8A)
MARKER_CLK (28/5B)
BER_CLK (28/20)
I_DAC_CLK (12/18)
Q_DAC_CLK (13/18)
D41 74ABT16244
D102 74ABT125D
D17 74ABT16244
SRCLK1 (8/1C)
SRCLK5 (9/7C)
SRCLK3 (8/7C,15/1A)
SRCLK4 (9/7B,12/1A)
SRCLK6 (7/7C)
SRCLK2 (9/1C)
to SDRAM Q
to TRIGGER OUT LATCH
to DATA LATCH Q
to DATA LATCH I
to CONTROLLER
to SDRAM I
R87 75
R86 75
R88 51
R736 75
R91 51
R90 51
R85 51
R89 75
R93 75
R735 75
R752 51
R92 10K
R80 10K
R462 10K
R706 10K
R731 20 1W
R732 20 1W
R542 301
R72 10U 25V
R225 100
C401 47U 10V
D84 LT1117CS
C496 100N
C497 100N
C498 100N
C495 100N
C627 100N
C73 100N
C626 100N
C620 100N
C665 100N
L25 1U
L34 1U
Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
CLOCK DISTRIBUTION
06.04
1GPK DATUM NAME
BEARB. SR
GEPR. SR
NORM
PLOTT 99-07-06 SCHWAIGE
BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/DIGITAL_UNIT_4/DIGITAL_UNIT.4
ROHDE&SCHWARZ
ZEICHN.-NR. 1110.2532.01 S
BLATT-NR 10
AEND. IND. AENDERUNGS-MITTEILUNG DATUM NAME
ZU GERAET AMIQ
REG.I.V. 1110.2003
ERSTE Z. 1110.2003.01




IEEE-488 INTERFACE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06 04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/DIGITAL_UNIT_4/DIGITAL_UNIT.5 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| | | | | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | REG.I.V 1110.2003 ERSTE Z. 1110.2003.01 |

BLATT-NR 11 +

FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

# I-CHANNEL DAC

IDATA (9/8A)
SRCLK4 (9/7B,10/30)
I_DAC_CLK (10/8A)
I_AMPL_ADJ1 (26/4A)
I_AMPL_ADJ2 (26/4A)
I_OFFSET_ADJ1 (26/4B)
I_DAC_OUT (13/1B)
DIAG_IDAC (27/2B)

D32 74ABT574D
D33 74ABT574D
D52 HI5741BIB
D50 AD9764AR
D83 LT1117CS
N46 MAX4108ESA
N47 MAX4108ESA
N13 MAX4108ESA
N50 UA7905UC
N52 UA7805UC
N32 UA7905UC

-1,20V
+1,20V
-5V-IDAC
+5V-IDAC
+5VDAC
-5VDAC
+5VI
-5VI
-12VA
+12VA

max +/-1V

** = NOT FITTED

Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | IGPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.1 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| | | | | ZU GERAET AMIQ | | | REG.I.V. 1110.2003 ERSTE Z. 1110.2003.01 |

BLATT-NR. 12 +

I_FILT_EXT_OUT
R698
0
X12
SMB-ST
R576
10K
I_FILT_SENSE1
(25/2A)
C211
10P
R577
100K
K21
I_DAC_OUT
(12/8C)
K22
C241
C190
L79
C376
L9
C189
I_FILT_EXT_IN
R699
X11
SMB-ST
R575
10K
I_FILT_SENSE2
(25/2C)
C210
10P
R574
100K
K25
R306
100
0.1%
R305
100
0.1%
C629
100N
N16
MAX4108ESA
C628
R430
R428
R304
R303
R572
DIAG_IFILT_EXT
(27/2B)
K27
I_FILT_OUT
(14/1B)
FILTER 1
fg = 25MHz
C315
1P
C213
4.7P
R103
475
0.1%
C190
3-10P-1P
R408
475
0.1%
C680
2.2P
C314
2.7P
R458
301
0.1%
R457
301
0.1%
R410
301
0.1%
R411
301
0.1%
C163
100N
X13
SMB-ST
C308
3.3P
L1
330NH
C267
15P
L2
330NH
C74
10P
L3
330NH
C278
100N
R259
121
C160
100N
N17
MAX4108ESA
C143
100N
R82
1.5K
R350
137
0.1%
C556
82P
C75
4.7P
C189
10P-1P
N18
MAX4108ESA
C151
100N
L4
330NH
L79
389NH
R300
100
0.1%
L52
5.6U
K26
X9
SMB-ST
K23
C292
47P
C212
10P
C368
150P
C309
1P
C369
150P
C310
1P
C293
47P
C313
1P
R308
100
0.1%
R307
100
0.1%
C241
70P5-5P5
C305
1P
R409
475
0.1%
R104
475
0.1%
C70
33P
R102
27.4K
0.1%
C209
10P
R456
301
0.1%
R455
301
0.1%
R406
475
0.1%
R106
475
0.1%
C126
8.2P
R134
887
0.1%
R623
18.2K
R407
475
0.1%
R558
619
C277
100N
C168
100N
X6
SMB-ST
R298
100
0.1%
R297
100
0.1%
R301
100
0.1%
R302
100
0.1%
K29
FILTER 2
fg = 2,5MHz
X8
SMB-ST
R400
825
0.1%
R109
234
0.1%
C360
10P
L11
15UH
C87
27P
L12
15UH
C273
18P
L77
12UH
C276
100N
R632
33.2
R108
234
0.1%
C586
120P
C306
1P
C366
150P
C90
180P
C367
150P
C89
180P
C585
120P
C303
1P
C171
100N
N15
MAX4108ESA
C156
100N
C376
18P-2P
C589
100P
C93
10P
C155
100N
N14
MAX4108ESA
L9
33U
Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
+5V-IF
L94
+5VI
2.2U
C261
47U
10V
C262
47U
10V
L93
-5VI
2.2U
-5V-IF
C404
100N
L27
2.2U
N18
MAX4108ESA
L26
C403
100N
C406
100N
L29
2.2U
N17
MAX4108ESA
L28
C405
100N
C410
100N
L33
2.2U
N14
MAX4108ESA
L32
C409
100N
C399
100N
L23
2.2U
N15
MAX4108ESA
L24
C400
100N
C408
100N
L31
2.2U
N16
MAX4108ESA
L30
C407
100N
I-CHANNEL FILTER
** = NOT FITTED
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT 2 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| | | | | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | REG.V 1110 2003 / ERSTE Z. 1110 2003 01 / BLATT-NR 13 + |

OUTPUT AMPLIFIER

VAR GAIN AMPLIFIER

ATTENUATOR

I_FILT_OUT (13/8B)

I_OFFSET_ADJ2 (26/4D)

I_AMPL_VAR (26/4C)

+5V-IPA

-5V-IPA

+5VI

-5VI

+5VA

REF2.5V (27/4C,27/8D)

+2.5V (14/4E,14/4F,14/5E,14/7D)

0dB

20dB

40dB

K30 K31 K32 K33 K34 K35 K36 K37

V47 SM6T6V8A

V23 BAS216

V24 BAS216

V46 SM6T6V8A

N20 MAX4108ESA

N21 MAX4108ESA

D56 AD835

N54 NE5534D

N55 OP297GS

D34 74LVC86DB

V66 HSMS2805

R434 150 0.1%

C280 100N

C279 100N

R269 200 0.1%

R268 200 0.1%

R267 200 0.1%

R266 200 0.1%

R435 150 0.1%

R461 301 0.1%

R351 221 0.1%

R560 274 0.1%

R637 100K

R692 100K

R644 100K

R344 100K 0.1%

R643 100K

R783 3.92K

C678 10P

R338 240 0.1%

R337 240 0.1%

R336 240 0.1%

R561 274 0.1%

R112 30.1K

R354 0.1%

R353 0.1%

R352 0.1%

R355 0.1%

R452

R274

C214

I_OUT_DIAG (14/6C)

I_OUTPUT

I_OUT_SENSE (24/20)

R334 10

R642 100K

R312 100 0.1%

R311 100 0.1%

R469 10K

C542 1N

C319 1P

R543 1N

R546 1.21K

R431 150 0.1%

C318 1P

R633 5.11K

R432 118 0.1%

C638 100N

R433 150 0.1% max +/- 2V

C637 100N

R579 10K 0.1%

R578 10K 0.1%

C99 10N

DIAG_IAMPL_VAR (27/2B)

R470 1K

R547 4.7K

P56

P57

R584 1K

R585 10

C102 22P

C101 100N

R170 10K

R169 10K

C250 47U 10V

C412 100N

C413 100N

C415 100N

L35 2.2U

C251 47U 10V

C411 100N

C414 100N

C416 100N

L36 2.2U

C240 100N

C419 100N

R239 100

C612 100N

R690 10K

R696 100K

C616 1N

R694 10K 0.1%

C237 10N

DIAG_IPA_HF (27/2C)

R754 20K

R581 10K 0.1%

R580

C100

DIAG_IPA (27/2C)

R590 10K 0.1%

R589 10K 0.1%

R645 100

C544 1N

R650 100

C547 1N

R591 10K 0.1%

R588 10K 0.1%

R168 10K

C103 10N

Q_OUT_DIAG (17/5D,17/8A)

DIAG_I/Q_PHASE (27/2C)

Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

** = NOT FITTED

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

# I-OUTPUT AMPLIFIER

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.3 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ROHDE&SCHWARZ | | | ZEICHN -NR 1110.2532.01 S |
| | | | | ZU GERAET AMIQ | | | REGTN 1110 2003 ERSTE Z 1110 2003 01 |

BLATT-NR. 14 +

# Q-CHANNEL DAC

ODATA (8/8A,9/8C)
SRCLK3 (8/7C,10/3D)
Q_DAC_CLK (10/8A)
Q_AMPL_ADJ1 (26/8A)
Q_AMPL_ADJ2 (26/8A)
Q_OFFSET_ADJ (26/8E)
DIAG_QDAC (27/2B)
Q_DAC_OUT (16/1B)

D30 74ABT574D
D31 74ABT574D
D51 AD9764AR
D53 HI5741BIB
N48 MAX4108ESA
N49 MAX4108ESA
N23 MAX4108ESA
N53 UA7805UC
N51 UA7905UC
X16 SMB-ST

+5V
+5VDAC
-5V-QDAC
-5VDAC
+5V-QDAC
+1,20V
-1,20V
+12VA
-12VA
+5VQ
-5VQ

max +/-1V

Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

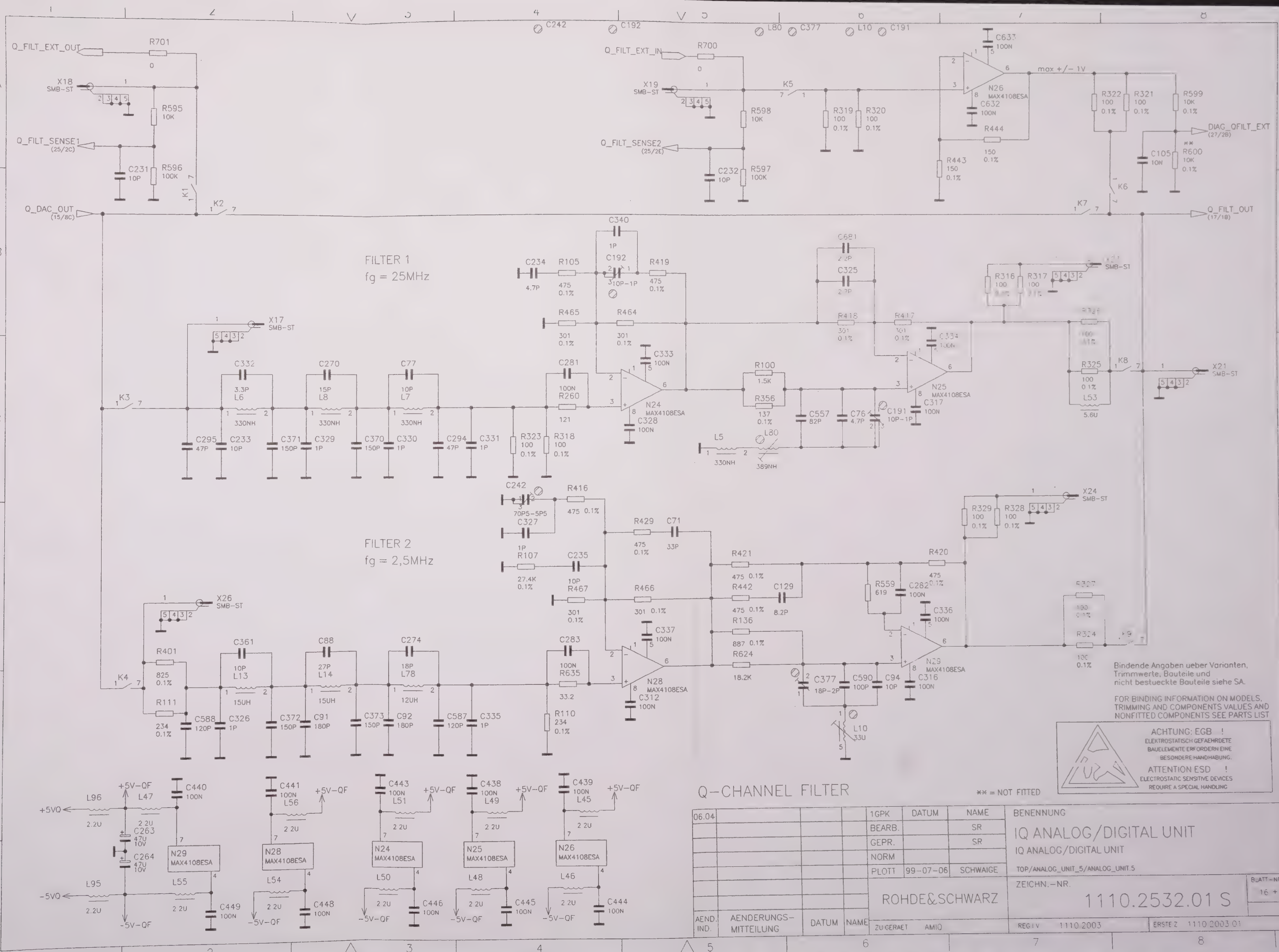
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

** = NOT FITTED

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.4 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| | | | | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| AEND IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | REG.I.V. 1110.2003 ERSTE Z. 1110.2003.01 |

BLATT-NR 15 +


Q_FILT_EXT_OUT
R701
0
X18
SMB-ST
R595
10K
Q_FILT_SENSE1
(25/2C)
C231
10P
R596
100K
K1
Q_DAC_OUT
(15/8C)
K2
C242
C192
C242
70P5-5P5
C327
1P
C340
1P
C234
4.7P
R105
475
0.1%
C192
3
10P-1P
R419
475
0.1%
FILTER 1
fg = 25MHz
R465
301
0.1%
R464
301
0.1%
X17
SMB-ST
C332
3.3P
L6
330NH
C270
15P
L8
330NH
C77
10P
L7
330NH
C295
47P
C233
10P
C371
150P
C329
1P
C370
150P
C330
1P
C294
47P
C331
1P
K3
C281
100N
R260
121
C333
100N
N24
MAX4108ESA
C328
100N
R323
100
0.1%
R318
100
0.1%
R416
475 0.1%
C327
1P
R107
27.4K
0.1%
C235
10P
R467
301
0.1%
R466
301 0.1%
C283
100N
R635
33.2
C337
100N
N28
MAX4108ESA
C312
100N
R110
234
0.1%
FILTER 2
fg = 2,5MHz
X26
SMB-ST
R401
825
0.1%
R111
234
0.1%
K4
C361
10P
L13
15UH
C88
27P
L14
15UH
C274
18P
L78
12UH
C588
120P
C326
1P
C372
150P
C91
180P
C373
150P
C92
180P
C587
120P
C335
1P
R700
Q_FILT_EXT_IN
0
X19
SMB-ST
R598
10K
Q_FILT_SENSE2
(25/2E)
C232
10P
R597
100K
K5
R319
100
0.1%
R320
100
0.1%
C633
100N
N26
MAX4108ESA
C632
100N
R444
150
0.1%
R443
150
0.1%
max +/- 1V
R322
100
0.1%
R321
100
0.1%
R599
10K
0.1%
DIAG_OFILT_EXT
(27/2B)
C105
10N
R600
10K
0.1%
K6
K7
Q_FILT_OUT
(17/1B)
C681
2.2P
C325
2.7P
R418
301
0.1%
R417
301
0.1%
R316
100
R317
100
SMB-ST
R100
1.5K
R356
137
0.1%
C557
82P
C76
4.7P
C191
10P-1P
C334
100N
N25
MAX4108ESA
C317
100N
R325
100
0.1%
L53
5.6U
K8
X21
SMB-ST
L5
330NH
L80
389NH
R429
475
0.1%
C71
33P
R421
475 0.1%
R442
475 0.1%
C129
8.2P
R136
887 0.1%
R624
18.2K
R559
619
C282
100N
R420
475
0.1%
C336
100N
N29
MAX4108ESA
C590
100P
C94
10P
C316
100N
C377
18P-2P
L10
33U
X24
SMB-ST
R329
100
0.1%
R328
100
0.1%
R327
100
0.1%
R324
100
0.1%
+5VQ
-5VQ
L96
L47
C440
100N
2.2U
C263
47U
10V
C264
47U
10V
N29
MAX4108ESA
L95
L55
C449
100N
+5V-QF
-5V-QF
C441
100N
L56
N28
MAX4108ESA
L54
C448
100N
C443
100N
L51
N24
MAX4108ESA
L50
C446
100N
C438
100N
L49
N25
MAX4108ESA
L48
C445
100N
C439
100N
L45
N26
MAX4108ESA
L46
C444
100N
Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING
** = NOT FITTED
Q-CHANNEL FILTER
06.04
1GPK DATUM NAME
BEARB. SR
GEPR. SR
NORM
PLOTT 99-07-06 SCHWAIGE
BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/ANALOG_UNIT_5/ANALOG_UNIT.5
ROHDE&SCHWARZ
ZEICHN.-NR.
1110.2532.01 S
BLATT-NR
16 +
AEND. IND.
AENDERUNGS-MITTEILUNG
DATUM
NAME
ZU GERAET AMIQ
REGI V 1110.2003
ERSTE Z 1110.2003.01

# Q-OUTPUT AMPLIFIER

## OUTPUT AMPLIFIER

+5V-QPA
V49 SM6T6V8A
V26 BAS216
R448 150 0.1%
C338 100N
N31 MAX4108ESA
C339 100N
V25 BAS216
V48 SM6T6V8A
-5V-QPA
Q_FILT_OUT (16/8B)
K10
K11
R335 10
R649 100K
R651 100K
R346 100K 0.1%
R648 100K
R784 3.92K
C679 10P
0dB
R271 200 0.1%
R272 200 0.1%
R273 200 0.1%
R270 200 0.1%
K12
K13
ATTENUATOR
20dB
40dB
K14
K15
K16
K17
Q_OUT_DIAG (14/6E,17/50)
Q_OUTPUT
R449 150 0.1%
R468 301 0.1%
R357 221 0.1%
R563 274 0.1%
R638 100K
R693 100K
R339 240 0.1%
R340 240 0.1%
R341 240 0.1%
R562 274 0.1%
R113 30.1K
R358 221 0.1%
R359 221 0.1%
R360 221 0.1%
R361 221 0.1%
R453 12.1K
R276 10K
R277 10K
C236 1P
Q_OUT_SENSE (24/2B)

## VAR GAIN AMPLIFIER

R331 100 0.1%
R330 100 0.1%
D57 AD835
R471 10K
Q_OFFSET_ADJ2 (26/8D)
C546 1N
C342 1P
P74
C545 1N
R550 1.21K
R447 150 0.1% max +/- 2V
C640 100N
R445 150 0.1%
C341 1P
R634 5.11K
R446 118 0.1%
C639 100N
N30 MAX4108ESA
R601 10K 0.1%
R602 10K 0.1%
C106 10N
DIAG_QAMPL_VAR (27/2B)
R472 1K
Q_AMPL_VAR (26/8C)
P73
R551 4.7K

R742 2.43K 0.1%
R707 1K 0.1%
N55 OP297GS
R695 10K 0.1%
DIAG_QPA_HF (27/2C)
C238 10N
Q_OUT_DIAG (14/6E,17/8A)
R689 100
C615 100N
V66 HSMS2805
R691 10K
R697 100K
C617 1N
R604 10K 0.1%
DIAG_QPA (27/2C)
R755 20K
R603 10K 0.1%
C107 10N

C256 47U 10V
C450 100N
C457 100N
C455 100N
L57 2.2U
+5VQ
+5V-QPA
D57 AD835
N31 MAX4108ESA
N30 MAX4108ESA
L58 2.2U
-5VQ
-5V-QPA
C257 47U 10V
C454 100N
C453 100N
C451 100N

C614 100N
+5VA
N55 OP297GS
-5VDAC
C613 100N

Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

** = NOT FITTED

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 06.04 | | | |

| | DATUM | NAME |
|---|---|---|
| 1GPK | | |
| BEARB. | | SR |
| GEPR. | | SR |
| NORM | | |
| PLOTT | 99-07-06 | SCHWAIGE |

ROHDE&SCHWARZ

ZU GERAET AMIQ

BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/ANALOG_UNIT_5/ANALOG_UNIT.6

ZEICHN.-NR. 1110.2532.01 S

BLATT-NR 17 +

REG I V 1110 2003

ERSTE Z 1110 2003 01

# REFERENCE OSCILLATOR

P76 P75

+5V-REF V68 SM6T6V8A

REFIN
REFIN
0,5...2Veff
Ri = 50 Ohm
(7...20dBm)
C549 10N
R709 22.1
R711 33.2
C120 10N
R705 470
V13 BAV99
R165 220
R192 10K
R639 15K
V10 BSV52
R125 100
C464 100N
R263 470

REF_OUT_SEL (19/5E) H=VTCXO_10MHz L=REF FEEDTHROUGH

D94 74HC14T D94 74HC14T
REF_IN_10 (19/1A)
R523 51
D59 74ABT125D
R636 33.2
R652 270
C378 390P
L65 1U
C374 680P
L66 1U
C379 390P
C548 10N
REFOUT
REFOUT
>0.5V eff 1,2Vpp into 50 Ohm

VTCXO_OUT1 (19/8A)
D59 74ABT125D
+5V-REF
R189 10K
D59 74ABT125D
R191 10K

+5V-REF C643 100N D94 74HC14T
+5V-REF C463 100N D59 74ABT125D
D59 74ABT125D
D94 74HC14T D94 74HC14T D94 74HC14T D94 74HC14T
R181 10K R190 10K R184 10K

+5VA
WREN (7/50) R126 100 R193 10K
D19 74HC14T D19 74HC14T
PWRON_RESET (22/50,23/2B,23/20,24/2A,27/8C)

IAIDI (7/50) R124 100 R188 10K
D19 74HC14T D19 74HC14T SER1_DATA_IN (21/1E)

IAIRD (7/50) R123 100 R187 10K
D19 74HC14T D19 74HC14T P76 SER1_READ N.C.

IAIWR (7/50) R122 100 R186 10K
D18 74HC14T D18 74HC14T STROBE1 (19/2D,21/4C,21/5D,22/2C,27/2C) (27/8C)
D18 74HC14T D18 74HC14T STROBE1_DAC (21/1D)

IAICLK (7/50) R121 100 R185 10K
D18 74HC14T D18 74HC14T SER1_CLK (19/2D,21/1D,21/4A,22/2C,27/2C) (27/5B,27/8C)

IAIDO (7/50) R582 100
D18 74HC14T D18 74HC14T A/D_DATA (27/5B)

X4

IGIDI (7/50) R120 100 R184 10K
D27 74HC14T D27 74HC14T SER2_DATA_IN (26/1A)

IGIRD (7/50) R119 100 R194 10K
D27 74HC14T D27 74HC14T P75 SER2_READ (18/7D)

IGIWR (7/50) R118 100 R183 10K
D28 74HC14T D28 74HC14T STROBE2 (23/2D,24/2D)
D28 74HC14T D28 74HC14T STROBE2_DAC (26/1A,26/5A)

IGICLK (7/50) R117 100 R182 10K
D28 74HC14T D28 74HC14T SER2_CLK (18/7D,23/2E,24/2E,26/1A,26/5A)

IGIDO (7/50) R583 100
D28 74HC14T D28 74HC14T BOARD_ID_DATA

X3

** = not fitted

+5VA +5VA +5VA +5VA
SER2_CLK (18/6E,23/2E,24/2E,26/1A,26/5A)
SER2_READ (18/6D)
ATT_CNTRL_DATA (24/4E)
OPT_ID0 (27/8D)
OPT_ID1 (27/8D)
R178 10K R177 10K MOD03 R172 10K R175 10K R176 10K R173 10K

| LAYOUT REV. | BOARD ID MOD02 | MOD03 | MOD04 |
|---|---|---|---|
| -03- | 91 hex | ——— | ——— |
| -05- | 89 hex | ——— | ——— |
| -06- | ——— | 99 hex | 9B hex |

BOARD ID
99 hex (MOD03)
9B hex (MOD04)

L64 1U C285 100N +12VA +12V-REF C345 1U 10V
L63 1U C284 100N -12VA -12V-REF C344 1U 10V

+12V-REF R278 39 1W N6 LT1117CS IN OUT OUT ADJ/COM C183 10U 25V R704 301 R703 100 C346 1U 10V +5V-REF

+5VA C462 100N D18 74HC14T
+5VA C461 100N D19 74HC14T
+5V C458 100N D27 74HC14T
+5V C459 100N D28 74HC14T
+5VA C460 100N D54 74HCT165T

SERIAL CONTROL INTERFACE

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 06.04 | | | |

| | DATUM | NAME |
|---|---|---|
| IGPK | | |
| BEARB. | | SR |
| GEPR. | | SR |
| NORM | | |
| PLOTT | 99-07-06 | SCHWAIGE |

ROHDE&SCHWARZ

BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/ANALOG_UNIT_5/ANALOG_UNIT.7

ZEICHN.-NR 1110.2532.01 S
BLATT-NR 18 +

ZU GERAET AMIQ
REG.I.V. 1110.2003
ERSTE Z. 1110.2003.01

# REFERENCE OSCILLATOR

P36 P80 P77 P78

+5V-REF
R210 10K
R211 10K
R196 10K
P80
D35 74AC74M
REF_IN_10 (18/5A)
R209 10K
R208 10K
C111 10N
N11 TL072ACD
R362 330K
V58 BAV70
R566 274
C245 22P
R363 330K
C3 220N
VTCXO_OUT2 (19/8B)
R207 10K
R206 10K
C108 10N
R195 10K
N11 25V TL072ACD
R127 100
D40 DG419DY
DIAG_VTCXO_TUNE (27/2B)
0...2,5V
C109 10N
V8 BAS216
R204 10K
R205 10K
P79 0...5V
R451 2.2K
C420 2.2U **
C110 10N
R587 10
V51 BZX284B5V1
+5V-REF
L91 47U
C558 4.7U 25V
B1 VCTXO 10MHZ
X34
P78
D70 74HC14T
R526 51
VTCXO_OUT1 (18/5B)
R525 51
VTCXO_OUT2 (19/1B)
R524 51
REF_10MHZ
D55 74ACT125T
R594 51
X27 SMB-ST
SYN_REF (20/1A)
10 MHz
9 MHz
5 MHz
+12V-REF
R364 10
C559 4.7U 25V
G7 REF02CS
R629 10K 0.1%
R473 10K 0.1%
C560 4.7U 25V
N33 OP297GS
R630 20K 0.1%
-5V
C478 100N
REF-5V (21/1D)
D74 DAC8143
VTCXO_TUNE
P77 0...5V
C78 12P
N33 OP297GS
R202 10K
D36 74AC74M
R203 10K
R201 10K
R200 10K
COUNTER_DATA (22/3E)
STROBE1 (27/8C) (18/3D,21/4C,21/5D,22/2C,27/2C)
SER1_CLK (27/5B,27/8C) (18/3E,21/1D,21/4A,22/2C,27/2C)
R197 10K
D42 74HCT4094T
REF_OUT_SEL (18/1B)
REF10_SEL
SYN_REF_SEL0 (19/6E)
SYN_REF_SEL1 (19/6E)
SYN_CLK_SEL0 (22/2B)
SYN_CLK_SEL1 (22/2B)
SYN_CLK_SEL2 (22/2B)
REF10_DATA (21/4A)
(19/5E) SYN_REF_SEL0
(19/5E) SYN_REF_SEL1
R198 10K
D68 74HCT138T
R199 10K

+12V-REF
R368 10
C468 100N
C470 100N
+5V-REF
R367 10
C472 100N
N33 OP297GS
D40 DG419DY
N11 TL072ACD
C467 100N
C476 100N
C471 100N
R365 10
R366 10
-12V-REF
C477 100N
C469 100N
C473 100N
C474 100N
C475 100N
C465 100N
C466 100N
D68 74HCT138T
D35 74AC74M
D36 74AC74M
D55 74ACT125T
D70 74HC14T
D42 74HC14094T
D74 DAC8143

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** = NOT FITTED

# REFERENCE LOOP

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP: ANALOG_UNIT_5; ANALOG_UNIT 8 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | ZEICHN -NR 1110.2532.01 S |
| | | | | ROHDE&SCHWARZ | | | BLATT -NR 19 + |
| AEND IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | REGIV 1110 2003 ERSTELZ 1110 2003 01 |

PHASEDETECTOR

LOOPFILTER

VOLTAGE CONTROLLED OSCILLATOR

CLOCK SYNTHESIZER

P82

P81

+5VSYN +5VSYN

R218 10K

R217 10K

SYN_REF (19/8B)

D37 74AC74M

R348 9.09K

R475 1K

R216 10K

C113 1N

P82 max +/- 5V

R677 10K

V59 BAV70

R567 274

N12 NE5534AD

C68 22P

V81 BAV99

DIAC_VCO (27/2B)

C114 10N

R474 1K

R454 470K

R349 9.09K

DDS_CLK_OUT (21/8B)

R347 9.09K

R476 1K

P219 10K

C112 1N

C552 33N

P81 0 18V

C348 2.2U

C375 1U

R543 1K

C479 100N

N27 NE5534AD

C69 22P

C550 100N

R265 470

C421 2.2U

R678 10

X28.00 X20

V11 BZX284B10

V69 BZX284B8V2

VCO FREQUENCY

| | |
|---|---|
| +2V | 100MHz |
| +15V | 200MHz |

VCO

G8 100-200MHZ

R114 100

C553 2.2N

R128 100

R130 100

N3 MSA0386

+12VSYN

C481 100N

C480 100N

R101 221

+2.8V

L70 1U

C554 2.2N

R75 68

R687 100

R77 100

C662 2.2N

N2 MC12093

C555 2.2N

C551 2.2N

R264 100

BCX71J V56

R220 10K

+5VSYN

PRESCALE_SEL1 (21/5C)

R224 10K

R223 10K

BCX71J V55

PRESCALE_SEL0 (21/5C)

R212 10K

R213 10K

| PRESCALE | | |
|---|---|---|
| SEL1 | SEL0 | N |
| 0 | 0 | 2 |
| 0 | 1 | 4 |
| 1 | 0 | 4 |
| 1 | 1 | 8 |

P31 50...100MHz

HIGH_CLK (22/2A)

D60 74ABT125D

R529

DDS_CLK (21/1A)

+5V-BUF

R656 10K

L69 1U

+24VA +24VSYN

C288 100N

C289 100N

L68 1U

+12VA +12VSYN

C287 100N

C596 4.7U 25V

L67 1U

-12VA -12VSYN

C286 100N

C597 4.7U 25V

+24VSYN

R261 200

C184 10U 25V

V70 V45 BZX284B10

BZX284B10

C290 100N

N27 NE5534AD

V22 BZX284B6V8

C291 100N

C185 10U 25V

R131 200

-12VSYN

+12VSYN

R281 20

R280 20

N7 LM78L05ACM

C352 1U 10V

C351 1U 10V

+5VSYN

C645 100N

N12 NE5534AD

C646 100N

-12VSYN

+5VSYN

L72 1U

C353 1U 10V

D37 74AC74M

C484 100N

C485 100N

+5V-BUF

L73 1U

C350 1U 10V

D60 74ABT125D

C483 100N

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** = NOT FITTED

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG

ATTENTION ESD !
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# CLOCK-SYNTHESIZER

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.9 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| | | | | ZU GERAET AMIQ | | | REG.TV 1110 2003 |
| | | | | | | | ERSTE Z 1110.2003.01 |

BLATT-NR 20 +

HIGH_CLK (20/8C)

P30

DIVRES (7/2E)

D101 74HCT04T

D92 74HCT00T

EN0 (22/2B,22/3A)

HI_CLK_EN (22/5A)

+5V-COUNT

R662 10K

D93 74HCT138T

(19/5E) SYN_CLK_SEL0
(19/5E) SYN_CLK_SEL1
(19/5E) SYN_CLK_SEL2

EN0 (22/2A,22/3A)
EN1 (22/3B,22/5A)
EN2 (22/3B,22/5A)
EN3 (22/3C,22/5B)
EN4 (22/3D,22/5B)
EN5 (22/3E,22/5B)
EN6 (22/5C)
EN7 (22/5C,22/7C)
(CLK_EXT_EN)

R663 10K

R673 10K

R674 10K

D95 74HCT08T

D47 74AC74M

D16 74AC74M

EN1 (22/2B,22/5A)

EN2 (22/2B,22/5A)

D96 74HCT08T

EN3 (22/2B,22/5B)

R675 10K

D88 74HCT4094T

STROBE1 (27/8C) (18/3D,19/2D,21/4C,21/5D,27/2C)

SER1_CLK (27/5B,27/8C) (18/3E,19/2D,21/1D,21/4A,27/2C)

SKEW_DATA (21/3E)

N1_0 N1_1 N1_2 N1_3 N1_4 N1_5 N1_6 N1_7

D98 74HCT40103T

D99 74HCT40103T

D89 74HCT4094T

EN4 (22/2B,22/5B)

N2_0 N2_1 N2_2 N2_3 N2_4 N2_5 N2_6 N2_7

D87 74HCT4094T

EN5 (22/2B,22/5B)

R676 10K

N3_0 N3_1 N3_2 N3_3 N3_4 N3_5 N3_6 N3_7

D97 74HCT40103T

COUNTER_DATA (19/2D)

50MHz...100MHz
HI_CLK_EN (22/3A)

25MHz...50MHz
EN1 (22/2B,22/3B)

12,5MHz...25MHz
EN2 (22/2B,22/3B)

6,25MHz...12,5MHz
EN3 (22/2B,22/3C)

3,125MHz...6,25MHz
EN4 (22/2B,22/3D)

1,5625MHz...3,125MHz
EN5 (22/2B,22/3E)

0,78125MHz...1,5625MHz
EN6 (22/2B)

CLK_EXT (22/6C)
(CLK_EXT_EN) EN7 (22/2B,22/5C,22/7C)

D90 74ABT125D

D91 74ABT125D

R540 51

(CLK_EXT_EN) EN7 (22/2B,22/5C,22/7C)
CLK_OUT_EN (21/5C)
PWRON_RESET (18/3C,23/2B,23/2D,24/2A,27/8C)

D92 74HCT00T

D101 74HCT04T

R745 10K

R741 27.4

R744 10K

SYN_OUT_CLK (6/1D,6/7B,10/1A)

X1 SMB-ST

CLOCK_OUT BUFFER

+5V-BUF

V50 SM6T6V8A

V14 BAV99

R115 47.5
R116 47.5
R492 51.1
R493 51.1
C271 15P

CLOCK IN/OUT

CLK_IN/OUT

D61 74ABT125D

CLK_EXT (22/5C)

R668 27.4

EN7 (CLK_EXT_EN) (22/2B,22/5C)

R661 10K

R667 10K
R658 10K

D96 74HCT08T

R670 10K

D47 74AC74M

R669 10K

C654 C655 C656 C657 C661 C660 C648 C649 C499 C651
100N

D89 74HCT4094T
D97 74HCT40103T
D98 74HCT40103T
D99 74HCT40103T
D95 74HCT08T
D96 74HCT08T
D90 74ABT125D
D91 74ABT125D
D61 74ABT125D
D92 74HCT00T

PROGRAMMABLE CLOCK COUNTER

** = NOT FITTED

+12VA

R282 20 1W

D63 LT1117CS

C186 10U 25V

R477 301

R653 100

C258 47U 10V

R292 20

R293 20

C358 1U

N10 LM78L05ACM

C359 1U

C666 C650 C659 C658 C652 C653
100N

D101 74HCT04T
D93 74HCT138T
D16 74AC74M
D47 74AC74M
D87 74HCT4094T
D88 74HCT4094T

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
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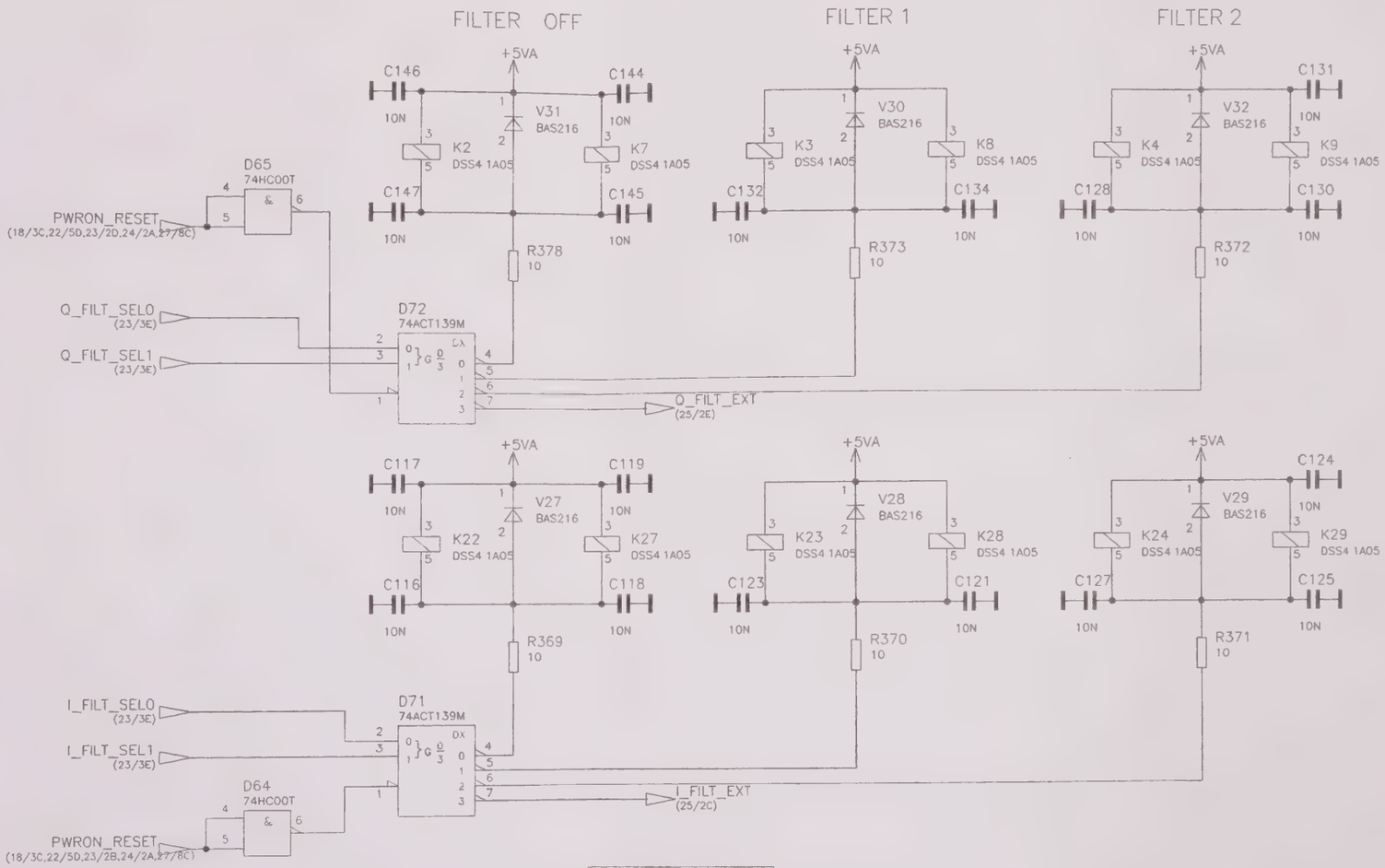
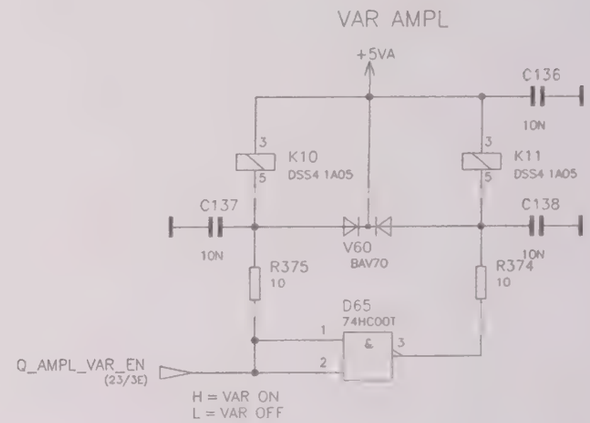
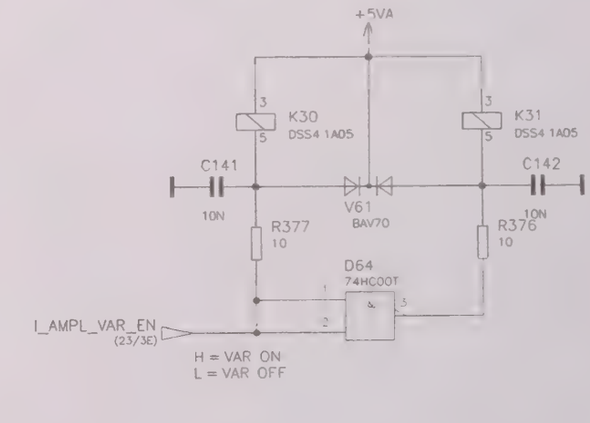
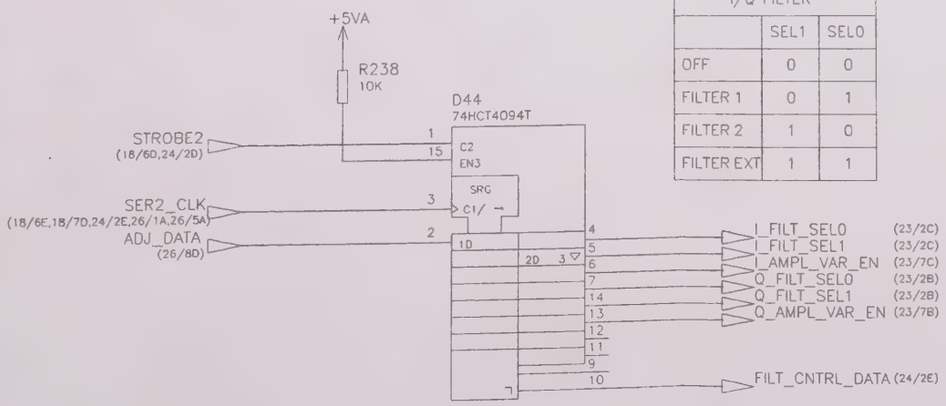
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.11 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | ROHDE&SCHWARZ |
| | | | | | | | ZEICHN.-NR. 1110.2532.01 S |
| | | | | | | | BLATT-NR 22 + |
| | | | | | | | REG I V 1110 2003 |
| | | | | | | | ERSTE Z 1110 2003 01 |

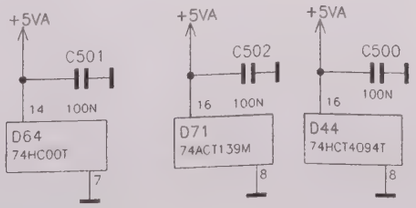



| I/Q FILTER | | |
|---|---|---|
| | SEL1 | SEL0 |
| OFF | 0 | 0 |
| FILTER 1 | 0 | 1 |
| FILTER 2 | 1 | 0 |
| FILTER EXT | 1 | 1 |




Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

** = NOT FITTED

# FILTER CONTROL

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 06.04 | | | |

| | 1GPK | DATUM | NAME |
|---|---|---|---|
| | BEARB. | | SR |
| | GEPR. | | SR |
| | NORM | | |
| | PLOTT | 99-07-06 | SCHWAIGE |

BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/ANALOG_UNIT_5/ANALOG_UNIT.12

ROHDE&SCHWARZ

ZEICHN-NR 1110.2532.01 S

BLATT-NR 23 +

ZU GERAET AMIQ | REG.I.V. 1110.2003 | ERSTE Z. 1110.2003.01

# OUTPUT OVERVOLTAGE PROTECTION

PWRON_RESET
(18/3C,22/5D,23/2B,23/2D,23/2C,27/8C)

Q_OUT_SENSE (17/8C)

I_OUT_SENSE (14/8C)

+5VA / -5VDAC

V15 BAV99

V16 BAV99

U1 LM339D

R144 1.62K

R143 1.62K

R484 2K

R485 2K

R138 200K

R137 200K

V34 BAS216

V33 BAS216

C566 1U 10V

C563 1U 10V

C565 1U 10V

C564 1U 10V

R243 10K

R242 10K

R244 10K

R241 10K

R240 10K

R171 10K

D45 74HCT4094T

STROBE2 (18/6D,23/2D)

SER2_CLK (18/6E,18/7D,23/2E,26/1A,26/5A)

FILT_CNTRL_DATA (23/3E)

I_ATT_SEL0 (24/4C)
I_ATT_SEL1 (24/4C)
Q_ATT_SEL0 (24/4A)
Q_ATT_SEL1 (24/4B)
I_OUT_EN (24/4C)
Q_OUT_EN (24/4D)
DIG_OUT_EN
ATT_CNTRL_DATA (18/7D)

Q_ATT_SEL0 (24/4E)
Q_ATT_SEL1 (24/4E)
I_ATT_SEL0 (24/4E)
I_ATT_SEL1 (24/4E)
I_OUT_EN (24/4E)
Q_OUT_EN (24/4E)
I_DIAG_EN (27/3D)
Q_DIAG_EN (27/3D)

D72 74ACT139M
D71 74ACT139M
D65 74HC00T
D64 74HC00T
D86 74ACT125T

| I/Q OUTPUT ATTENUATOR | | |
|---|---|---|
| | SEL1 | SEL0 |
| 0dB | 0 | 0 |
| 20dB | 0 | 1 |
| 40dB | 1 | 0 |
| RESERVED (OFF) | 1 | 1 |

0dB

K12 DSS4 1A05
K13 DSS4 1A05
V65 BAV70
C161 10N
C162 10N
R386 10
R385 10
D65 74HC00T

20dB

K14 DSS4 1A05
K15 DSS4 1A05
V64 BAV70
C158 10N
C159 10N
C157 10N
R383 10
R384 10

0dB

K32 DSS4 1A05
K33 DSS4 1A05
V62 BAV70
C148 10N
C150 10N
C149 10N
R379 10
R380 10
D64 74HC00T

20dB

K34 DSS4 1A05
K35 DSS4 1A05
V63 BAV70
C153 10N
C152 10N
C154 10N
R382 10
R381 10

R345 10
C634 10N
V67 BAS216
K17 DSS4 1A05

R343 10
C239 10N
V57 BAS216
K37 DSS4 1A05

R569 10
C636 10N
V80 BAS216
K16 DSS4 1A05

R565 10
C635 10N
V79 BAS216
K36 DSS4 1A05

** = NOT FITTED

C641 100N (D86 74ACT125T)
C503 100N (D45 74HCT4094T)
C506 100N (D65 74HC00T)
C507 100N (D72 74ACT139M)
C505 100N
C504 100N
U1 LM339D

Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

OUTPUT AND ATTENUATOR CONTROL

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.13 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| ZU GERAET AMIQ | | | | REG.NV 1110 2003 | | | ERSTE Z. 1110 2003 01 |

BLATT-NR. 24 +

I_FILT_SENSE1 (13/1A)
I_FILT_SENSE2 (13/5A)
I_FILT_EXT (23/3D)
Q_FILT_SENSE1 (16/1A)
Q_FILT_SENSE2 (16/5A)
Q_FILT_EXT (23/3B)

V19 BAV99
V20 BAV99
V18 BAV99
V17 BAV99
+5VI
-5VI
+5VQ
-5VQ

U3 LM339D
U2 LM339D

R252 10K
R249 10K
R250 10K
R251 10K
R245 10K
R248 10K
R247 10K
R246 10K
C573 1U 10V
C571 1U 10V
C574 1U 10V
C568 1U 10V

R147 1.62K
R148 1.62K
R146 1.62K
R145 1.62K
R488 2K
R489 2K
R487 2K
R486 2K
V43 BAS216
V42 BAS216
V36 BAS216
V37 BAS216
R141 200K
R142 200K
R140 200K
R139 200K
C572 1U 10V
C570 1U 10V
C567 1U 10V
C569 1U 10V

D67 74HC00T
D66 74HC00T

R387 10
R388 10
R389 10
R392 10
R391 10
R390 10

EXT-OUT
EXT-IN
FILT-EXT

+5VA
V35 BAS216
V38 BAS216
V39 BAS216
V44 BAS216
V41 BAS216
V40 BAS216
K21 DSS4 1A05
K25 DSS4 1A05
K26 DSS4 1A05
K1 DSS4 1A05
K5 DSS4 1A05
K6 DSS4 1A05
C165 10N
C166 10N
C164 10N
C167 10N
C169 10N
C174 10N
C173 10N
C175 10N
C172 10N
C170 10N

C513 100N
C510 100N
C512 100N
C508 100N
C511 100N
C509 100N

** = NOT FITTED

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

EXT-FILTER IN/OUT PROTECTION

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.14 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| | | | | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| AEND IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | REG.V 1110.2003 ERSTE Z 1110.2003.01 |

BLATT-NR. 25 +

ADJ_REF (26/2E,26/5A)
STROBE2_DAC (18/6D,26/5A)
SER2_CLK (18/6E,18/7D,23/2E,24/2E,26/5A)
SER2_DATA_IN (18/6C)
+5V-ADJ
D82 DAC8143
R167 18.2K 0.1%
R626 21.5K 0.1%
R628 49.9K 0.1%
R620 10K 0.1%
R613 10K 0.1%
C86 12P
N40 OP297GS
N43 OP97
P90
P88...P90
I_AMPL_ADJ2 (12/4D)
+1V...+1,5V
I_AMPL_ADJ1 (12/4A)
-1,5V...-1V
D81 DAC8143
R557 20K 0.1%
R619 20K 0.1%
R616 10K 0.1%
C85 12P
N39 OP297GS
P89
-1,2V...+1,2V
I_OFFSET_ADJ1 (12/7B)
D79 DAC8143
R556 20K 0.1%
R618 20K 0.1%
R615 10K 0.1%
C83 12P
N41 OP297GS
P87
I_AMPL_VAR (14/1D)
D80 DAC8143
R555 20K 0.1%
R617 20K 0.1%
R614 10K 0.1%
C84 12P
N38 OP297GS
P88
I_OFFSET_ADJ2 (14/1D)
ADJ
R253 10K
DIAG_ADJ_REF (27/2B)
+1,2V
ADJ_REF (26/1A,26/5A)
R342 392
R631 33K
N45 OP97
C188 10U 25V
V12 LT1004-1.2
C579 4.7U 25V
C347 C349 C417 C418 C452 C456 C592 C593
C533 C530 C528 C526 C525 C523 C521 C518 C594 C516 C515
C532 C531 C529 C527 C524 C522 C520 C519 C595 C517 C514
100N
N34 OP297GS
N35 OP297GS
N36 OP297GS
N37 OP297GS
N38 OP297GS
N39 OP297GS
N40 OP297GS
N41 OP297GS
N43 OP97
N44 OP97
N45 OP97
-5V-ADJ

ADJ_REF (26/1A,26/2E)
STROBE2_DAC (18/6D,26/1A)
SER2_CLK (18/6E,18/7D,23/2E,24/2E,26/1A)
D78 DAC8143
R166 18.2K 0.1%
R625 21.5K 0.1%
R627 49.9K 0.1%
C82 12P
N36 OP297GS
R612
R605
N44
Q_AMPL_ADJ2 (15/4D)
+1V...+1,5V
Q_AMPL_ADJ1 (15/4A)
-1,5V...-1V
D77 DAC8143
R554
R611
C81 12P
N35 OP297GS
P85
-1,2V...+1,2V
Q_OFFSET_ADJ1 (15/7B)
D76 DAC8143
R553 20K 0.1%
R610 20K 0.1%
R607 10K 0.1%
C79 12P
N37 OP297GS
P83
-1,2V...+1,2V
Q_AMPL_VAR (17/1D)
D75 DAC8143
R552 20K 0.1%
R609 20K 0.1%
R606 10K 0.1%
C80 12P
N34 OP297GS
P84
-1,2V...+1,2V
Q_OFFSET_ADJ2 (17/1D)
ADJ_DATA (23/2E)

+12VA
-12VA
R291 20
R290 20
R288 20
R289 20
N9 LM78L05ACM
N4 LM79L05ACD
C575 4.7U 25V
C576 4.7U 25V
C577 4.7U 25V
C578 4.7U 25V
+5V-ADJ
-5V-ADJ

Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.

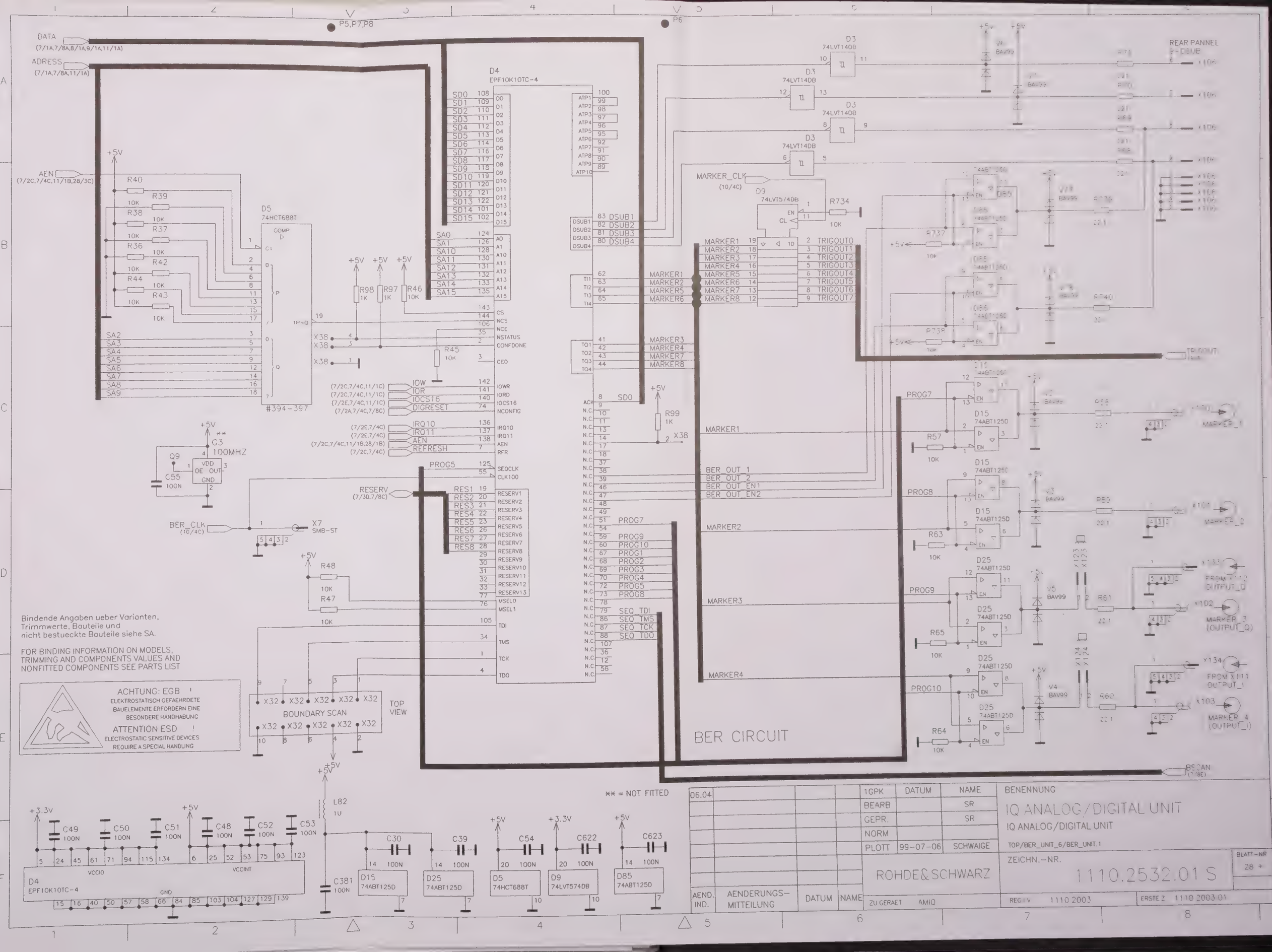
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

** = NOT FITTED

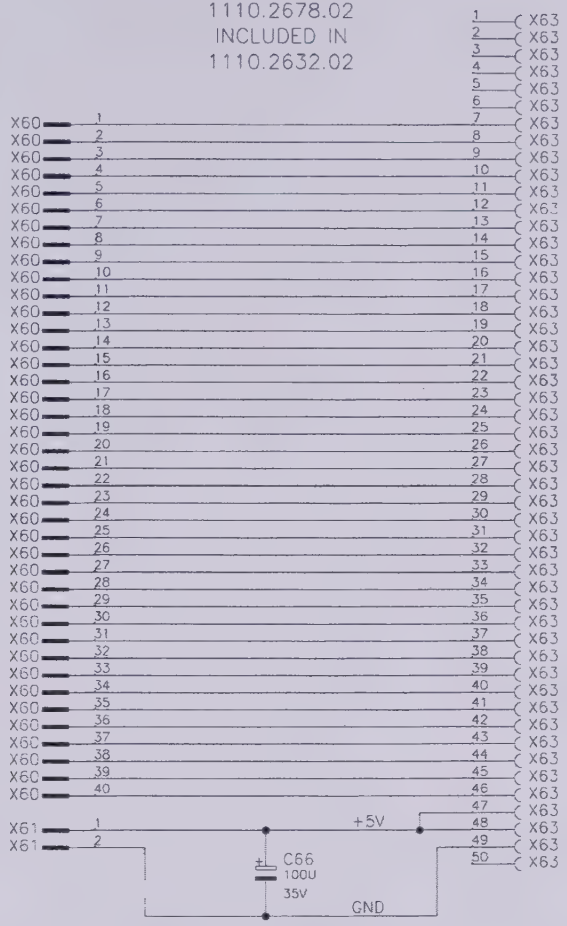
ADJUSTMENT DAC s

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG | | |
| | | | | BEARB | | SR | IQ ANALOG/DIGITAL UNIT | | |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT | | |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.15 | | |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | | | |
| | | | | | | | ZEICHN.-NR. | | BLATT-NR. |
| | | | | | | | ROHDE&SCHWARZ | 1110.2532.01 S | 26 + |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET | AMIQ | | REGIV 1110 2003 | ERSTELL 1110 2003 01 | |

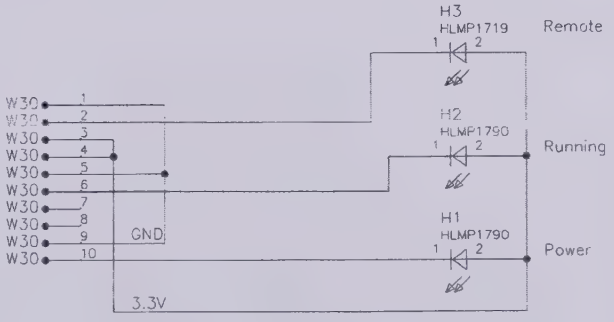

DATA
(7/1A,7/8A,8/1A,9/1A,11/1A)
ADRESS
(7/1A,7/8A,11/1A)
AEN
(7/2C,7/4C,11/1B,28/3C)
P5,P7,P8
P6
D4
EPF10K10TC-4
D5
74HCT688T
#394-397
R40
R39
R38
R37
R36
R42
R44
R43
10K
R98
R97
R46
R45
1K
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
SD0
SD1
SD2
SD3
SD4
SD5
SD6
SD7
SD8
SD9
SD10
SD11
SD12
SD13
SD14
SD15
SA0
SA1
SA10
SA11
SA12
SA13
SA14
SA15
CS
NCS
NCE
NSTATUS
CONFDONE
CEO
IOWR
IORD
IOCS16
NCONFIG
IRQ10
IRQ11
AEN
RFR
SEQCLK
CLK100
RESERV
(7/30,7/8C)
RESERV1
RESERV2
RESERV3
RESERV4
RESERV5
RESERV6
RESERV7
RESERV8
RESERV9
RESERV10
RESERV11
RESERV12
RESERV13
MSEL0
MSEL1
TDI
TMS
TCK
TDO
IOW
IOR
IOCS16
DIGRESET
IRQ10
IRQ11
AEN
REFRESH
PROG5
PROG7
PROG9
PROG10
PROG1
PROG2
PROG3
PROG4
PROG5
PROG8
SEQ_TDI
SEQ_TMS
SEQ_TCK
SEQ_TDO
ATP1
ATP2
ATP3
ATP4
ATP5
ATP6
ATP7
ATP8
ATP9
ATP10
DSUB1
DSUB2
DSUB3
DSUB4
TI1
TI2
TI3
TI4
TQ1
TQ2
TQ3
TQ4
ACK
N.C.
MARKER1
MARKER2
MARKER3
MARKER4
MARKER5
MARKER6
MARKER7
MARKER8
BER_OUT_1
BER_OUT_2
BER_OUT_EN1
BER_OUT_EN2
MARKER_CLK
(10/4C)
D9
74LVT574DB
R734
R99
X38
G3
100MHZ
Q9
C55
100N
BER_CLK
(10/4C)
X7
SMB-ST
R48
R47
10K
BOUNDARY SCAN
TOP
VIEW
X32
ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING
Bindende Angaben ueber Varianten,
Trimmwerte, Bauteile und
nicht bestueckte Bauteile siehe SA.
FOR BINDING INFORMATION ON MODELS,
TRIMMING AND COMPONENTS VALUES AND
NONFITTED COMPONENTS SEE PARTS LIST
** = NOT FITTED
L82
1U
C49
C50
C51
C48
C52
C53
C381
C30
C39
C54
C622
C623
100N
VCCIO
VCCINT
GND
D3
74LVT14DB
D15
74ABT125D
D25
74ABT125D
D85
74ABT125D
V1
V2
V3
V4
V5
BAV99
R734
R737
R738
R739
R740
R57
R63
R65
R64
R58
R59
R60
R61
22.1
REAR PANNEL
P-DRIVE
TRIGOUT
MARKER_1
MARKER_2
MARKER_3
(OUTPUT_Q)
MARKER_4
(OUTPUT_I)
FROM X111
OUTPUT_Q
FROM X111
OUTPUT_I
BSCAN
(7/8E)
BER CIRCUIT
06.04
1GPK
BEARB
GEPR.
NORM
PLOTT
DATUM
NAME
99-07-06
SCHWAIGE
SR
BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT
TOP/BER_UNIT_6/BER_UNIT.1
ROHDE&SCHWARZ
ZEICHN.-NR.
1110.2532.01 S
BLATT-NR
28 +
ZU GERAET AMIQ
REGIV 1110 2003
ERSTE Z 1110 2003 01
AEND. IND.
AENDERUNGS-
MITTEILUNG
DATUM
NAME

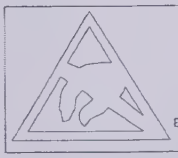
ÜBER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

## HDD ADAPTER
1110.2678.02
INCLUDED IN
1110.2632.02




## LED BOARD
1110.2661.02
INCLUDED IN
1110.2632.02



ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE
BAUELEMENTE ERFORDERN EINE
BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES
REQUIRE A SPECIAL HANDLING

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 06.04 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | GEPR. | | SR | IQ ANALOG/DIGITAL UNIT |
| | | | | NORM | | | TOP/ANALOG_UNIT_5/ANALOG_UNIT.17 |
| | | | | PLOTT | 99-07-06 | SCHWAIGE | |
| | | | | ROHDE&SCHWARZ | | | ZEICHN.-NR. 1110.2532.01 S |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ZU GERAET AMIQ | | | REG.I.V 1110.2003 ERSTE Z 1110.2003.01 |

BLATT-NR 29 -

1 2 3 4

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| . | XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS | | | | |
| B1 | EO 10MHZ-QU.OSZ VTCXO 5V OSCILLATOR VTCXO | 1039.3113.00 | MILLIREN | 453-0210 | |
| B2 | EQ 32,768KHZ MC-306 QUARTZ CRYSTAL UNIT | 1097.6557.00 | SEIKO | MC-36B 32,768KHZ | |
| C1 | CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR | CC 0520.6873.00 | KEMET | C2220C105K5RAC | |
| C2 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C3 | CK 220NF+-5% 25V PPS 2220 SMD-FILM-CAPACITOR | 0009.7872.00 | SIEMENS | B32740-A4224-J063 | |
| C4 ..55 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C56 | CE 100UF+-20% 20V RM5 CAPACITOR | 3528.5975.00 | SANYO | 20 SH 100 M | |
| C57 | CE 100UF +-20% 25V RM2.5 ELECTROLYTIC CAPACITOR | CE 0008.7891.00 | PANASONIC | ECA-1EFG101I | |
| C58 | CE 22UF+-20%35V RUND SMD SMD ELECTROLYTIC CAPACIT. | CE 0009.6253.00 | PANASONIC | EEV HB 1V 220P | |
| C59 | CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4609.00 | MURATA | GRM39C0G***F50ZPT | |
| C60 | CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4609.00 | MURATA | GRM39C0G***F50ZPT | |
| C61 ..65 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C66 | CE 100UF +-20% 35V RM5 ELECTROLYTIC CAPACITOR | 0008.7510.00 | PHILIPS_CO | 2222 116 90042 | |
| C67 | CC 12PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8256.00 | MURATA | GRM39C0G***F50ZPT | |
| C68 | CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4609.00 | MURATA | GRM39C0G***F50ZPT | |
| C69 | CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4609.00 | MURATA | GRM39C0G***F50ZPT | |
| C70 | CC 33PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0048.3639.00 | MURATA | GRM39C0G***B50ZPT | |
| C71 | CC 33PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0048.3639.00 | MURATA | GRM39C0G***B50ZPT | |
| C72 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | SPRAGUE | 293D 106 X9 025 D2W | |
| C73 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C74 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C75 | CC 4,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4538.00 | MURATA | GRM39C0G***B50ZPT | |
| C76 | CC 4,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4538.00 | MURATA | GRM39C0G***B50ZPT | |
| C77 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C78 ..86 | CC 12PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8256.00 | MURATA | GRM39C0G***F50ZPT | |
| C87 | CC 27PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0010.9323.00 | MURATA | GRM39C0G***F50ZPT | |
| C88 | CC 27PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0010.9323.00 | MURATA | GRM39C0G***F50ZPT | |
| C89 ..92 | CC 180PF+-1% 50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 1097.6305.00 | MURATA | GRM39C0G***F50ZPT | |
| C93 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C94 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C95 ..100 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C101 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C102 | CC 22PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4609.00 | MURATA | GRM39C0G***F50ZPT | |
| C103 ..111 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C112 | CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4938.00 | MURATA | GRM39X7R***K50C500 | |
| C113 | CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4938.00 | MURATA | GRM39X7R***K50C500 | |
| C114 ..121 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| C122 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C123 ..125 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C126 | CC 8,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4550.00 | MURATA | GRM39C0G***B50ZPT | |
| C127 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C128 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C129 | CC 8,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4550.00 | MURATA | GRM39C0G***B50ZPT | |
| C130 ..132 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C133 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C134 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C135 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C136 ..138 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C139 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C140 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C141 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C142 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C143 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C144 ..150 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C151 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C152 ..154 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C155 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C156 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C157 ..159 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C160 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C161 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C162 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C163 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C164 ..167 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C168 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C169 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C170 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C171 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C172 ..177 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C178 | CC 68PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.9746.00 | MURATA | GRM39C0G***F50ZPT | |
| C179 ..182 | CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR | CC 1051.4697.00 | AVX | CM105X7R333K25VAT | |
| C183 ..188 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | SPRAGUE | 293D 106 X9 025 D2W | |
| C189 ..192 | CT 1P-10P LUFTTR.KONZ. AIR TRIMMER | CT 0564.6885.00 | TRONSER | 60-0726-15010-901 | |
| C193 ..206 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C207 | CC 15PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8227.00 | MURATA | GRM39C0G***F50ZPT | |
| C208 | CC 18PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0048.3622.00 | MURATA | GRM39C0G***F50ZPT | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| C209 | CC 10P+-0,1PF50V NPO 0603 | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| ..212 | SMD-CERAMIC-CAPACITOR | | | | |
| C213 | CC 4,7PF0,1PF50V NPO 0603 | CC 0009.4538.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C214 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C215 | CC 10P+-0,1PF50V NPO 0603 | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| ..228 | SMD-CERAMIC-CAPACITOR | | | | |
| C229 | CC 15PF+-1% 50VNPO 0603 | CC 0009.8227.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C230 | CC 18PF+-1% 50VNPO 0603 | CC 0048.3622.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C231 | CC 10P+-0,1PF50V NPO 0603 | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| ..233 | SMD-CERAMIC-CAPACITOR | | | | |
| C234 | CC 4,7PF0,1PF50V NPO 0603 | CC 0009.4538.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C235 | CC 10P+-0,1PF50V NPO 0603 | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C236 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C237 | CC 10NF+-10% 50VHDK 0603 | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| ..239 | SMD-CERAMIC-CAPACITOR | | | | |
| C240 | CC 100NF+-10%16V HDK 0603 | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| | CERAMIC CHIP CAPACITOR | | | | |
| C241 | CT 5P5-65P FOLIE ABGL.0 | 0037.7896.00 | VALVO | 2222 808 32659 | |
| | TRIMMER | | | | |
| C242 | CT 5P5-65P FOLIE ABGL.0 | 0037.7896.00 | VALVO | 2222 808 32659 | |
| | TRIMMER | | | | |
| C243 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C244 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C245 | CC 22PF+-1% 50VNPO 0603 | CC 0009.4609.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C246 | CE 47UF 10% 10V 7343 | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| ..264 | TANTALUM CHIP CAPACITOR | | | | |
| C265 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C266 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C267 | CC 15PF+-1% 50VNPO 0603 | CC 0009.8227.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C268 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C269 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C270 | CC 15PF+-1% 50VNPO 0603 | CC 0009.8227.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C271 | CC 15PF+-1% 50VNPO 0603 | CC 0009.8227.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C272 | CC 33OP 1% 50V NPO 0603 | CC 0048.6667.00 | PHILLIPS_P | 2238 867 18331 | |
| | CERAMIC CAPACITOR | | | | |
| C273 | CC 18PF+-1% 50VNPO 0603 | CC 0048.3622.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C274 | CC 18PF+-1% 50VNPO 0603 | CC 0048.3622.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C275 | CC 27PF+-1% 50VNPO 0603 | CC 0010.9323.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C276 | CC 100NF+-10%50V X7R 1206 | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| ..278 | CERAMIC CHIP CAPACITOR | | | | |
| C279 | CC 100NF+-10%16V HDK 0603 | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| | CERAMIC CHIP CAPACITOR | | | | |
| C280 | CC 100NF+-10%16V HDK 0603 | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| | CERAMIC CHIP CAPACITOR | | | | |
| C281 | CC 100NF+-10%50V X7R 1206 | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| ..291 | CERAMIC CHIP CAPACITOR | | | | |
| C292 | CC 47PF+-1% 50VNPO 0603 | CC 0009.4644.00 | MURATA | GRM39C0G***F50ZPT | |
| ..295 | SMD-CERAMIC-CAPACITOR | | | | |
| C296 | CE 100UF +-20% 35V RM5 | 0008.7510.00 | PHILIPS_CO | 2222 116 90042 | |
| | ELECTROLYTIC CAPACITOR | | | | |
| C297 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| ..301 | SMD-CERAMIC-CAPACITOR | | | | |
| C302 | CC 100NF+-10%16V HDK 0603 | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| | CERAMIC CHIP CAPACITOR | | | | |
| C303 | CC 1,0PF0,1PF50V NPO 0603 | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C304 | CC 100NF+-10%16V HDK 0603 | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| | CERAMIC CHIP CAPACITOR | | | | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| C305 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C306 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C307 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C308 | CC 3,3PF 0,1PF 50V NPO 06 SMD-CERAMIC-CAPACITOR | CC 0009.8285.00 | MURATA | GRM39C0G***B50ZPT | |
| C309 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C310 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C311 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C312 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C313 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C314 | CC 2,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8291.00 | MURATA | GRM39C0G***B50ZPT | |
| C315 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C316 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C317 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C318 ..324 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C325 | CC 2,7PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8291.00 | MURATA | GRM39C0G***B50ZPT | |
| C326 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C327 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C328 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C329 ..331 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C332 | CC 3,3PF 0,1PF 50V NPO 06 SMD-CERAMIC-CAPACITOR | CC 0009.8285.00 | MURATA | GRM39C0G***B50ZPT | |
| C333 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C334 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C335 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C336 ..339 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C340 ..343 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C344 ..346 | CE 1UF 10% 10V 1206 TANTALUM CHIP CAPACITOR | CE 0007.7252.00 | SPRAGUE | 293D 105 X9 010 D2T | |
| C347 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C348 | CK 2,2UF+-5% 50V RD7,2H13 POLYESTER CAPACITOR | CK 0350.5944.00 | SIEMENS | B32529-C5225-J089 | |
| C349 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C350 ..359 | CE 1UF 10% 10V 1206 TANTALUM CHIP CAPACITOR | CE 0007.7252.00 | SPRAGUE | 293D 105 X9 010 D2T | |
| C360 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C361 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C362 ..364 | CC 220PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4721.00 | MURATA | GRM39C0G***F50ZPT | |
| C365 | CC 56PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8809.00 | AVX | 1206 5 A 560 F 3 | |
| C366 ..373 | CC 150PF+-1% 50V NPO 0603 MD-CERAMIC-CAPACITOR | CC 1051.4680.00 | MURATA | GRM39C0G***F50ZPT | |
| C374 | CC 680PF+-5% 50V HDK 0603 CERAMIK CAPACITOR | CC 1093.6152.00 | MURATA | GRM39X7R681J50PT | |
| C375 | CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR | CC 0520.6873.00 | KEMET | C2220C105K5RAC | |
| C376 | CT 2P-18P KF-TRIMMER CAPACITOR | 0252.5634.00 | VALVO | 2238 809 05217 | |
| C377 | CT 2P-18P KF-TRIMMER CAPACITOR | 0252.5634.00 | VALVO | 2238 809 05217 | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| C378 | CC 390PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8880.00 | AVX | 1206 5 A 391 F 3 | |
| C379 | CC 390PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8880.00 | AVX | 1206 5 A 391 F 3 | |
| C380 ..400 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C401 | CE 47UF 10% 10V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| C402 | CE 1UF +-10% 25V 3528 TANTALUM CHIP CAPACITOR | CE 0007.7217.00 | SPRAGUE | 293D 105 X9 025 B2T | |
| C403 ..419 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C420 | CK 2,2UF+-5% 50V RD7,2H13 POLYESTER CAPACITOR | CK 0350.5944.00 | SIEMENS | B32529-C5225-J089 | |
| C421 | CK 2,2UF+-5% 50V RD7,2H13 POLYESTER CAPACITOR | CK 0350.5944.00 | SIEMENS | B32529-C5225-J089 | |
| C422 ..441 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C442 | CE 1UF +-10% 25V 3528 TANTALUM CHIP CAPACITOR | CE 0007.7217.00 | SPRAGUE | 293D 105 X9 025 B2T | |
| C443 ..478 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C479 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C480 ..541 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C542 ..547 | CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4938.00 | MURATA | GRM39X7R***K50C500 | |
| C548 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C549 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C550 | CC 100NF+-10%50V X7R 1206 CERAMIC CHIP CAPACITOR | CC 0007.5237.00 | PHILIPS_CO | 2238 581 55649 | |
| C551 | CC 2,2NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4767.00 | MURATA | GRM39X7R***K50C500 | |
| C552 | CC 33NF+-10% 25V HDK 0603 SMD CERAMIC CAPACITOR | CC 1051.4697.00 | AVX | CM105X7R333K25VAT | |
| C553 ..555 | CC 2,2NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4767.00 | MURATA | GRM39X7R***K50C500 | |
| C556 | CC 82PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 1097.6363.00 | MURATA | GRM39C0G***F50ZPT | |
| C557 | CC 82PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 1097.6363.00 | MURATA | GRM39C0G***F50ZPT | |
| C558 ..560 | CE 4,7UF +-10% 25V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7230.00 | SPRAGUE | 293D475X9035D2W | |
| C561 | CE 4,7UF+-20%35V 7343 TANTALUM CHIP CAPACITOR | 4016.4858.00 | SPRAGUE | 293D 475X0 035 D2T | |
| C562 | CE 4,7UF +-10% 25V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7230.00 | SPRAGUE | 293D475X9035D2W | |
| C563 ..574 | CE 1UF 10% 10V 1206 TANTALUM CHIP CAPACITOR | CE 0007.7252.00 | SPRAGUE | 293D 105 X9 010 D2T | |
| C575 ..581 | CE 4,7UF +-10% 25V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7230.00 | SPRAGUE | 293D475X9035D2W | |
| C582 | CE 10UF+-20% 25V RM2,5 CAPACITOR | 3528.5969.00 | SANYO | 25 SH 10 M | |
| C583 | CE 100UF+-20% 20V RM5 CAPACITOR | 3528.5975.00 | SANYO | 20 SH 100 M | |
| C584 | CE 10UF+-20% 25V RM2,5 CAPACITOR | 3528.5969.00 | SANYO | 25 SH 10 M | |
| C585 ..588 | CC 120PF+-1% 50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 1097.6411.00 | MURATA | GRM39C0G***F50ZPT | |
| C589 ..591 | CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4680.00 | MURATA | GRM39C0G***F50ZPT | |
| C592 ..595 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C596 | CE 4,7UF +-10% 25V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7230.00 | SPRAGUE | 293D475X9035D2W | |
| C597 | CE 4,7UF +-10% 25V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7230.00 | SPRAGUE | 293D475X9035D2W | |
| C598 ..603 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | SPRAGUE | 293D 106 X9 025 D2W | |
| C604 ..609 | CE 47UF 10% 10V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| C610 ..615 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C616 | CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4938.00 | MURATA | GRM39X7R***K50C500 | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| C617 | CC 1,ONF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4938.00 | MURATA | GRM39X7R***K50C500 | |
| C618 | CC 56PF+-1% 50VNPO 0603 SMD CERAMIK CAPACITOR | CC 1093.6417.00 | MURATA | GRM39C0G***F50ZPT | |
| C619 | CC 56PF+-1% 50VNPO 0603 SMD CERAMIK CAPACITOR | CC 1093.6417.00 | MURATA | GRM39C0G***F50ZPT | |
| C620 ..633 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C634 ..636 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C637 ..661 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C662 | CC 2,2NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4767.00 | MURATA | GRM39X7R***K50C500 | |
| C663 | CC 100PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4680.00 | MURATA | GRM39C0G***F50ZPT | |
| C664 | CE 100UF+-20% 20V RM5 CAPACITOR | 3528.5975.00 | SANYO | 20 SH 100 M | |
| C665 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C666 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C667 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C668 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR NICHT BESTUECKT/NOT FITTED | CC 0009.8304.00 | MURATA | GRM39C0G***B50ZPT | |
| C669 | CC 1,ONF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4938.00 | MURATA | GRM39X7R***K50C500 | |
| C670 | CC 1,ONF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4938.00 | MURATA | GRM39X7R***K50C500 | |
| C671 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C672 | CE 100UF+-20% 20V RM5 CAPACITOR | 3528.5975.00 | SANYO | 20 SH 100 M | |
| C673 ..675 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C676 | CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8396.00 | PHILIPS_CO | 2222 863 18229 | |
| C677 | CC 22PF+-1%50V NPO 1206 CERAMIC CHIP CAPACITOR | CC 0099.8396.00 | PHILIPS_CO | 2222 863 18229 | |
| C678 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C679 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| C680 | CC 2,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4467.00 | MURATA | GRM39C0G***B50ZPT | |
| C681 | CC 2,2PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4467.00 | MURATA | GRM39C0G***B50ZPT | |
| D1 | BC X24164S8I-2.7 I2C-BUS SERIAL EEPROM | BC 0048.4258.00 | XICOR | X24164SI-2.7T1 | |
| D2 | BC EPM7128SQC100-7 CPLD IC PROG. LOGIC | BC 1097.6240.00 | ALTERA | EPM7128SQC100-7 | |
| D3 | BL 74LVT14DB 6XINV.SCHM 3.3V 6-INV SCHMITT-TRIGG. | 0048.4335.00 | PHILIPS_SE | (74)LVT14(DB) | |
| D4 | BC EPF10K10TC-144-4 EPLD IC PROG LOGIC DEVICE | 3530.3630.00 | ALTERA | EPF10K10TC144-4 | |
| D5 | BL PC74HCT688T 8B.COMPAR. 8BIT MAGNITUDE COMPARATOR | 0007.6762.00 | PHILIPS_SE | (PC)74HCT688(D/T) | |
| D6 | BC TNT4882 IEE488-CONTRL NUR F.SERV.ZWECKE STRAFE! | 1050.0698.00 | NATIONAL/I | TNT4882-(A/B)Q | |
| D7 | BC EPF10K10TC-144-4 EPLD IC PROG LOGIC DEVICE | 3530.3630.00 | ALTERA | EPF10K10TC144-4 | |
| D8 | BL PC74HCT688T 8B.COMPAR. 8BIT MAGNITUDE COMPARATOR | 0007.6762.00 | PHILIPS_SE | (PC)74HCT688(D/T) | |
| D9 | BL 74LVT574DB 8XD-FF 3S OCTAL D-TYPE FLIP-FLOP 3S | 0048.3316.00 | PHILIPS_SE | 74LVT574DB | |
| D10 | BC UPD4564163G5-A80-9JF IC NUR VAR/ONLY MOD: 03 | BC 2083.7030.00 | NEC | UPD4564163G5-A80-9JF | |
| D10 | BC KM416S1623OAT-GL IC SDRAM NUR VAR/ONLY MOD: 04 | BC 1110.3239.00 | SAMSUNG | KM416S1623OAT-GL | |
| D11 | BL 74LVT16374A 16XD-FF 3S 16BIT D-TYPE FLIP-FLOP | 0048.4093.00 | PHILIPS_SE | (74)LVT16374A(DL) | |
| D12 | BL 74LVT16374A 16XD-FF 3S 16BIT D-TYPE FLIP-FLOP | 0048.4093.00 | PHILIPS_SE | (74)LVT16374A(DL) | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| D13 | BL 74LVT16244BDL 16XBUFF OCTAL BUFFER | 0048.3322.00 | PHILIPS_SE | (74)LVT16244B(DL) | |
| D14 | BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH | 1110.3039.00 | TEXAS | (SN74)CBT16233(DL) | |
| D15 | BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE | BL 0009.5792.00 | PHILIPS_SE | (74)ABT125(D) | |
| D16 | BL 74AC74SC 2XD-FLIPFL DUAL D-TYPE FLIPF | BL 0820.3602.00 | FAIRCHILD | 74AC74SC | |
| D17 | BL 74ABT16244ADL 16X3SBUF IC 16BIT 3ST BUFFER | 2073.8027.00 | TEXAS | SN74ABT16244ADL | |
| D18 | BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER | BL 0007.4018.00 | PHILIPS_SE | (PC)74HC14(D/T) | |
| D19 | BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER | BL 0007.4018.00 | PHILIPS_SE | (PC)74HC14(D/T) | |
| D20 | BC UPD4564163G5-A80-9JF IC NUR VAR/ONLY MOD: 03 | BC 2083.7030.00 | NEC | UPD4564163G5-A80-9JF | |
| D20 | BC KM416S1623OAT-GL IC SDRAM NUR VAR/ONLY MOD: 04 | BC 1110.3239.00 | SAMSUNG | KM416S1623OAT-GL | |
| D21 | BL 74LVT16374A 16XD-FF 3S 16BIT D-TYPE FLIP-FLOP | 0048.4093.00 | PHILIPS_SE | (74)LVT16374A(DL) | |
| D22 | BL 74LVT16374A 16XD-FF 3S 16BIT D-TYPE FLIP-FLOP | 0048.4093.00 | PHILIPS_SE | (74)LVT16374A(DL) | |
| D23 | BL 74LVT16244BDL 16XBUFF OCTAL BUFFER | 0048.3322.00 | PHILIPS_SE | (74)LVT16244B(DL) | |
| D24 | BL 74CBT16233 2X16 SWITCH 16-BIT BUS SWITCH | 1110.3039.00 | TEXAS | (SN74)CBT16233(DL) | |
| D25 | BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE | BL 0009.5792.00 | PHILIPS_SE | (74)ABT125(D) | |
| D26 | BL 74LVT574DB 8XD-FF 3S OCTAL D-TYPE FLIP-FLOP 3S | 0048.3316.00 | PHILIPS_SE | 74LVT574DB | |
| D27 ..29 | BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER | BL 0007.4018.00 | PHILIPS_SE | (PC)74HC14(D/T) | |
| D30 ..33 | BL 74ABT574AD 8XD-FF 3S OCTAL D-TYPE FLIPFLOP | BL 0009.8404.00 | PHILIPS_SE | (74)ABT574A(D) | |
| D34 | BL 74LVC86DB 4X2 EXOR EXOR GATE | 1104.2586.00 | PHILIPS_SE | 74LVC86A(DB) | |
| D35 ..38 | BL 74AC74SC 2XD-FLIPFL DUAL D-TYPE FLIPF | BL 0820.3602.00 | FAIRCHILD | 74AC74SC | |
| D39 | BL PC74HCT164T 8B.SH.REG. SHIFT REGISTER | BL 0007.6440.00 | PHILIPS_SE | (PC)74HCT164(D/T) | |
| D40 | BS DG419DY 1XUM ANALOGSCH ANALOG SWITCH | 0746.0322.00 | SILICONIX | DG419DY | |
| D41 | BL 74ABT16244ADL 16X3SBUF IC 16BIT 3ST BUFFER | 2073.8027.00 | TEXAS | SN74ABT16244ADL | |
| D42 ..46 | BL PC74HCT4094T 8ST.SHREG 8-STAGE SHIFT&STORE REG. | 0007.6885.00 | PHILIPS | (PC)74HCT4094(D) | |
| D47 | BL 74AC74SC 2XD-FLIPFL DUAL D-TYPE FLIPF | BL 0820.3602.00 | FAIRCHILD | 74AC74SC | |
| D48 | BS DG408DY 8CH.ANAL.MUX IC 8 CH ANALOG MULTIPLEX | 1036.4460.00 | SILICONIX | DG408DY | |
| D49 | BS DG408DY 8CH.ANAL.MUX IC 8 CH ANALOG MULTIPLEX | 1036.4460.00 | SILICONIX | DG408DY | |
| D50 | :: AD9764 1GPK SR | 1110.3197.00 | | | |
| D51 | :: AD9764 1GPK SR | 1110.3197.00 | | | |
| D52 | BJ HI5741BIB 1X14B-DAC D/A CONVERTER 100MSPS | 1110.3045.00 | HARRIS | HI5741BIB | |
| D53 | BJ HI5741BIB 1X14B-DAC D/A CONVERTER 100MSPS | 1110.3045.00 | HARRIS | HI5741BIB | |
| D54 | BL PC74HCT165T 8B SHREG SHIFT REGISTER | BL 0007.5408.00 | PHILIPS_SE | (PC)74HCT165(D/T) | |
| D55 | BL 74ACT125SC 4XBUFFER 3S IC QUAD BUFFER 3-STATE | BL 2013.8620.00 | FAIRCHILD | 74ACT125SC(X) | |
| D56 | BO AD835AR 250MHZ 4QMULTI 4-QUADRANT MULTIPLIER | 1085.1632.00 | ANALOG_DEV | AD835AR | |
| D57 | BO AD835AR 250MHZ 4QMULTI 4-QUADRANT MULTIPLIER | 1085.1632.00 | ANALOG_DEV | AD835AR | |
| D58 | BJ CS5507AS 1X16B.ADC IC ANALOG/DIGITAL CONV | 1051.4280.00 | CRYSTAL | CS5507-AS | |
| D59 ..62 | BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE | BL 0009.5792.00 | PHILIPS_SE | (74)ABT125(D) | |
| D63 | BO LT1117CSTLOWDROP+VREGL VOLTAGE REGULATOR | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| D64 ..67 | BL PC74HC00T 4X2IN.NAND QUAD 2INPUT NAND GATE | BL 0007.3463.00 | PHILIPS_SE | (PC)74HC00D(T) | |
| D68 | BL PC74HCT138T LINE DECOD LINE DECODER | BL 0007.5120.00 | PHILIPS_SE | (PC)74HCT138D(T) | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| D69 | BL PC74HCT138T LINE DECOD LINE DECODER | BL 0007.5120.00 | PHILIPS_SE | (PC)74HCT138D(T) | |
| D70 | BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER | BL 0007.4018.00 | PHILIPS_SE | (PC)74HC14(D/T) | |
| D71 | BL 74ACT139SC 2X 1A4DEMUX IC DUAL 1-OF-4 DEMUX | BL 2000.2412.00 | HARRIS | CD74ACT139M | |
| D72 | BL 74ACT139SC 2X 1A4DEMUX IC DUAL 1-OF-4 DEMUX | BL 2000.2412.00 | HARRIS | CD74ACT139M | |
| D73 | BL AD9850BRS DDS-SYNTH DDS SYNTHESIZER AD9850BRS | 1110.3122.00 | ANALOG_DEV | (AD)9850B(RS) | |
| D74 | BJ DAC8143FS 1X12B-DAC | 1012.9510.00 | PMI | DAC8143FS | |
| ..82 | 12B SERIAL D/A-CONVERTER | | | | |
| D83 | BO LT1117CSTLOWDROP+VREGL VOLTAGE REGULATOR | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| D84 | BO LT1117CSTLOWDROP+VREGL VOLTAGE REGULATOR | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| D85 | BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE | BL 0009.5792.00 | PHILIPS_SE | (74)ABT125(D) | |
| D86 | BL 74ACT125SC 4XBUFFER 3S IC QUAD BUFFER 3-STATE | BL 2013.8620.00 | FAIRCHILD | 74ACT125SC(X) | |
| D87 | BL PC74HCT4094T 8ST.SHREG | 0007.6885.00 | PHILIPS | (PC)74HCT4094(D) | |
| ..89 | 8-STAGE SHIFT&STORE REG. | | | | |
| D90 | BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE | BL 0009.5792.00 | PHILIPS_SE | (74)ABT125(D) | |
| D91 | BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE | BL 0009.5792.00 | PHILIPS_SE | (74)ABT125(D) | |
| D92 | BL PC74HCT00T 4X2IN.NAND NAND GATE | BL 0007.6156.00 | PHILIPS_SE | (PC)74HCT00D(T) | |
| D93 | BL PC74HCT138T LINE DECOD LINE DECODER | BL 0007.5120.00 | PHILIPS_SE | (PC)74HCT138D(T) | |
| D94 | BL PC74HC14T 6XINV.SCHM HEXINV.SCHMITT-TRIGGER | BL 0007.4018.00 | PHILIPS_SE | (PC)74HC14(D/T) | |
| D95 | BL PC74HCT08T 4X2IN ANDG AND GATE | BL 0007.6179.00 | PHILIPS_SE | (PC)74HCT08(D/T) | |
| D96 | BL PC74HCT08T 4X2IN ANDG AND GATE | BL 0007.6179.00 | PHILIPS_SE | (PC)74HCT08(D/T) | |
| D97 | BL PC74HCT40103T PROG.CNT | 0007.6956.00 | PHILIPS | (PC)74HCT40103(T) | |
| ..99 | BINARY DOWN COUNTER | | | | |
| D100 | BJ DAC8143FS 1X12B-DAC 12B SERIAL D/A-CONVERTER | 1012.9510.00 | PMI | DAC8143FS | |
| D101 | BL PC74HCT04T 6XINVERT HEXINVERTER | BL 0007.5372.00 | PHILIPS_SE | (PC)74HCT04(D/T) | |
| D102 | BL 74ABT125 4X 3S BUFFER QUAD BUFFER 3-STATE | BL 0009.5792.00 | PHILIPS_SE | (74)ABT125(D) | |
| D103 | BL 74LVT574DB 8XD-FF 3S | 0048.3316.00 | PHILIPS_SE | 74LVT574DB | |
| ..106 | OCTAL D-TYPE FLIP-FLOP 3S | | | | |
| G2 | EO 100,000MHZ QUARZOSZ CRYSTAL OSCILLATOR 100MHZ | 1110.3151.00 | SEIKO | SG-8002JAPH | |
| G3 | EO 100,000MHZ QUARZOSZ CRYSTAL OSCILLATOR 100MHZ | 1110.3151.00 | SEIKO | SG-8002JAPH | |
| G4 | EO 40,000MHZ QUARZOSZ QUARTZ CRYSTAL OSCILLATOR | 1078.3133.00 | SEIKO | SG 615 PH | |
| G7 | BO REF02CS VREF IC VOLTAGE REFERENCE | 0009.6882.00 | ANALOG_DEV | REF02CS | |
| G8 | EO 100-200 MHZ VCO SMD VOLTAGE CONTROLLED OSCILL | 1110.3051.00 | MINI-CIRCU | JTOS-200 | |
| H1 | AF HLMP1790 LED3 GN569N LED | AF 0007.5250.00 | QUALITY | HLMP-1790.(L32S) | |
| H2 | AF HLMP1790 LED3 GN569N LED | AF 0007.5250.00 | QUALITY | HLMP-1790.(L32S) | |
| H3 | AF HLMP1719 LED3 GE585N LED | AF 0099.9140.00 | QUALITY | HLMP-1719.L31S | |
| K1 | SR 5V 500 OHM 1X1 SIL | 1012.9604.00 | HAMLIN | HE3621A0500 | |
| ..17 | RELAY 5V SIL | | | | |
| K21 | SR 5V 500 OHM 1X1 SIL | 1012.9604.00 | HAMLIN | HE3621A0500 | |
| ..37 | RELAY 5V SIL | | | | |
| L1 | LD 330NH 2% 2A OR065 | LD 0567.4019.00 | JAHRE | 74.11-R330G | |
| ..8 | CHOKE | | | | |
| L9 | LD 33UH 40,25WDG Q7,5H12 COIL | 6059.9831.00 | NEOSID | 0053 1319 | |
| L10 | LD 33UH 40,25WDG Q7,5H12 COIL | 6059.9831.00 | NEOSID | 0053 1319 | |
| L11 | LD 15UH 2% 0,46A 1R2 | LD 0282.9338.00 | JAHRE | 74.11-15R0G | |
| ..14 | CHOKE | | | | |



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095 0026-0693

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| L15 ..24 | LD 2,2UH 10% 0,27A 1210 RF CHOKE | LD 0520.7870.00 | SIEMENS | B82422-A1222-J(K)100 | |
| L25 | LD 1UH 10% 0,38A 1210 RF CHOKE | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L26 ..33 | LD 2,2UH 10% 0,27A 1210 RF CHOKE | LD 0520.7870.00 | SIEMENS | B82422-A1222-J(K)100 | |
| L34 | LD 1UH 10% 0,38A 1210 RF CHOKE | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L35 ..51 | LD 2,2UH 10% 0,27A 1210 RF CHOKE | LD 0520.7870.00 | SIEMENS | B82422-A1222-J(K)100 | |
| L52 | LD 5,6UH 10% 0,14A 1210 RF CHOKE | 1051.4451.00 | SIEMENS | B82422-A1562-J(K)100 | |
| L53 | LD 5,6UH 10% 0,14A 1210 RF CHOKE | 1051.4451.00 | SIEMENS | B82422-A1562-J(K)100 | |
| L54 ..62 | LD 2,2UH 10% 0,27A 1210 RF CHOKE | LD 0520.7870.00 | SIEMENS | B82422-A1222-J(K)100 | |
| L63 ..76 | LD 1UH 10% 0,38A 1210 RF CHOKE | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L77 | LD 12UH 2% 0,49A 1R05 CHOKE | LD 0066.9806.00 | JAHRE | 74.11-12R0 | |
| L78 | LD 12UH 2% 0,49A 1R05 CHOKE | LD 0066.9806.00 | JAHRE | 74.11-12R0 | |
| L79 | LD 389NH 7,5W CM6P5 FE-K CHOKE | 0303.9182.00 | TOKO | 301SS-0700 | |
| L80 | LD 389NH 7,5W CM6P5 FE-K CHOKE | 0303.9182.00 | TOKO | 301SS-0700 | |
| L81 | LD SMD-DR.Z=625 OHM 50MHZ CHOKE | 1078.3240.00 | PHILIPS_CO | 4330 030 41663 | |
| L82 | LD 1UH 10% 0,38A 1210 RF CHOKE | LD 6006.0130.00 | SIEMENS | B82422-A1102-J(K)100 | |
| L83 ..90 | LD SMD-DR.Z=625 OHM 50MHZ CHOKE | 1078.3240.00 | PHILIPS_CO | 4330 030 41663 | |
| L91 | LD 47UH 10% 0,08A 1210 RF CHOKE | LD 0008.1693.00 | SIEMENS | B82422-A1473-J(K)100 | |
| L93 ..96 | LD 2,2UH 10% 0,27A 1210 RF CHOKE | LD 0520.7870.00 | SIEMENS | B82422-A1222-J(K)100 | |
| N1 | BO LT1084CP LOWDROP+VREGL IC VOLTAGE REGULATOR | 2028.4955.00 | LINEAR_TEC | LT1084CP | |
| N2 | BL MC12093D 2/4/8 PRESC IC PROGR PRESCALER | BL 1062.6438.00 | MOTOROLA | 12093(D) | |
| N3 | BM MSA0386 DC-2.4GHZ MMIC BROADBAND AMPLIFIER | 0848.4461.00 | AVANTEK | MSA0386 | |
| N4 | BO 79L05ACM-5V5%0A1VREGL VOLTAGE REGULATOR 5VDC | 0851.6703.00 | NSC | LM79L05ACM(X) | |
| N5 | BO MC78L12A+12V5%0A1VREGL VOLTAGE REGULATOR | 0350.9979.00 | MOTOROLA | (MC)78L12(ACD) | |
| N6 | BO LT1117CSTLOWDROP+VREGL VOLTAGE REGULATOR | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| N7 ..10 | BO LM78L05ACM+5V5%0A1VREG VOLTAGE REGULATOR | 0351.3451.00 | NSC | LM78L05ACM | |
| N11 | BO TL072ACD 2XFET OPAMP OPERATIONAL AMPLIFIER | 0803.1057.00 | TEXAS | TL 072 ACDR | |
| N12 | BO NE5534AD LN OPAMP IC OPAMP | 1011.5528.00 | SIGNETICS | NE5534A(D) | |
| N13 ..18 | BO MAX4108ESA OPAMP 400MHZ OPAMP | 1110.3139.00 | MAXIM | MAX4108ESA | |
| N19 | BO OP297GS 2X PREC OPAMP DUAL LOW BIAS PREC OPAMP | 6071.9467.00 | ANALOG_DEV | OP297GS | |
| N20 | BO MAX4108ESA OPAMP 400MHZ OPAMP | 1110.3139.00 | MAXIM | MAX4108ESA | |
| N21 | BO MAX4108ESA OPAMP 400MHZ OPAMP | 1110.3139.00 | MAXIM | MAX4108ESA | |
| N22 | BO AD780AR 2V/53VO VREF IC VOLTAGE REFERENCE | 1081.0131.00 | ANALOG_DEV | AD780AR | |
| N23 ..26 | BO MAX4108ESA OPAMP 400MHZ OPAMP | 1110.3139.00 | MAXIM | MAX4108ESA | |
| N27 | BO NE5534AD LN OPAMP IC OPAMP | 1011.5528.00 | SIGNETICS | NE5534A(D) | |
| N28 ..31 | BO MAX4108ESA OPAMP 400MHZ OPAMP | 1110.3139.00 | MAXIM | MAX4108ESA | |
| N32 | BO UA7905UC -5V1A0 VREGL VOLTAGE REGULATOR | BO 0282.5449.00 | NSC | LM7905 CT | |
| N33 ..41 | BO OP297GS 2X PREC OPAMP DUAL LOW BIAS PREC OPAMP | 6071.9467.00 | ANALOG_DEV | OP297GS | |
| N43 ..45 | BO OP97FS LP PREC OPAMP LOW POWER OPAMP | 1036.4390.00 | PMI | OP97F(S) | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| N46 | BO MAX4108ESA OPAMP | 1110.3139.00 | MAXIM | MAX4108ESA | |
| ..49 | 400MHZ OPAMP | | | | |
| N50 | BO UA7905UC -5V1AO VREGL VOLTAGE REGULATOR | BO 0282.5449.00 | NSC | LM7905 CT | |
| N51 | BO UA7905UC -5V1AO VREGL VOLTAGE REGULATOR | BO 0282.5449.00 | NSC | LM7905 CT | |
| N52 | BO LM340T + 5V1AO VREGL VOLTAGE REGULATOR | BO 0336.4615.00 | NSC | LM-340T5 | |
| N53 | BO LM340T + 5V1AO VREGL VOLTAGE REGULATOR | BO 0336.4615.00 | NSC | LM-340T5 | |
| N54 | BO NE5534D OPAMP OPERATIONAL AMPLIFIER | 0815.7555.00 | SIGNETICS | NE5534(D) | |
| N55 | BO OP297GS 2X PREC OPAMP DUAL LOW BIAS PREC OPAMP | 6071.9467.00 | ANALOG_DEV | OP297GS | |
| P1 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P9 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P10 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P22 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| ..32 | | | | | |
| P34 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| ..36 | | | | | |
| P56 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| ..58 | | | | | |
| P73 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| ..90 | | | | | |
| P92 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| P93 | VL EINPRESSSTIFT 5,6 PIN | VL 0010.7250.00 | AMP | 1-928776-5 | |
| R1 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..29 | | | | | |
| R30 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R31 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R32 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R33 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R34 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R35 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R36 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..48 | | | | | |
| R49 | RG 200R +-1% TK100 0603 SMD RESISTOR EIA0603 | 1097.6386.00 | PHILIPS_CO | RC 22 H | |
| R50 | RG 680R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6982.00 | PHILIPS_CO | RC 22 H | |
| ..52 | | | | | |
| R53 | RG 221 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5614.00 | DRALORIC | CR 1206 | |
| R54 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..57 | | | | | |
| R58 | RG 22,1 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5489.00 | DRALORIC | CR 1206 | |
| ..61 | | | | | |
| R62 | RG 330R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6960.00 | PHILIPS_CO | RC 22 H | |
| R63 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..65 | | | | | |
| R66 | RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6947.00 | PHILIPS_CO | RC 22 H | |
| R67 | RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6947.00 | PHILIPS_CO | RC 22 H | |
| R68 | RG 221 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5614.00 | DRALORIC | CR 1206 | |
| ..71 | | | | | |
| R72 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..74 | | | | | |
| R75 | RG 68R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6930.00 | PHILIPS_CO | RC 22 H | |
| R76 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R77 | RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| R78 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..81 | SMD RESISTOR EIA0603 | | | | |
| R82 | RG 1K5 +-1% TK100 0603 | 0009.6999.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R83 | RG 51,0 OHM+-1%TK100 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| ..85 | SMD RESISTOR EIA0603 | | | | |
| R86 | RG 75R0 +-1%TK200 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR | | | | |
| R87 | RG 75R0 +-1%TK200 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR | | | | |
| R88 | RG 51,0 OHM+-1%TK100 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R89 | RG 75R0 +-1%TK200 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR | | | | |
| R90 | RG 51,0 OHM+-1%TK100 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R91 | RG 51,0 OHM+-1%TK100 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R92 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R93 | RG 75R0 +-1%TK200 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR | | | | |
| R94 | RG 1K0 +-1% TK100 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| ..99 | SMD RESISTOR EIA0603 | | | | |
| R100 | RG 1K5 +-1% TK100 0603 | 0009.6999.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R101 | RG 221 OHM+-1%TK100 1206 | RG 0007.5614.00 | DRALORIC | CR 1206 | |
| | RESISTOR CHIP | | | | |
| R102 | RG 27,4KOH+-0,1%TK25 1206 | 0009.7743.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R103 | RG 475 OHM+-0,1%TK25 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| ..106 | SMD-RESISTOR EIA1206 | | | | |
| R107 | RG 27,4KOH+-0,1%TK25 1206 | 0009.7743.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R108 | RG 234 OHM+-0,1%TK25 1206 | 0010.3990.00 | PHILIPS_CO | MPC 01 | |
| ..111 | RESISTOR | | | | |
| R112 | RG 30,1KOHM+-1%TK100 1206 | RG 0007.5908.00 | ROEDERSTEI | D25 | |
| | RESISTOR CHIP | | | | |
| R113 | RG 30,1KOHM+-1%TK100 1206 | RG 0007.5908.00 | ROEDERSTEI | D25 | |
| | RESISTOR CHIP | | | | |
| R114 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R115 | RG 47,5 OHM+-1%TK100 1206 | RG 0007.5566.00 | DRALORIC | CR 1206 | |
| | RESISTOR CHIP | | | | |
| R116 | RG 47,5 OHM+-1%TK100 1206 | RG 0007.5566.00 | DRALORIC | CR 1206 | |
| | RESISTOR CHIP | | | | |
| R117 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| ..130 | SMD RESISTOR EIA0603 | | | | |
| R131 | RG 200 OHM+-1%TK100 1206 | RG 0007.5608.00 | DRALORIC | CR 1206 | |
| | RESISTOR CHIP | | | | |
| R132 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R133 | RG 3,01KOH+-0,1%TK25 1206 | 0010.2058.00 | PHILIPS_CO | MPC 01 | |
| | RESISTOR | | | | |
| R134 | RG 887 OHM+-0,1%TK25 1206 | 0009.9952.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R135 | RG 3,01KOH+-0,1%TK25 1206 | 0010.2058.00 | PHILIPS_CO | MPC 01 | |
| | RESISTOR | | | | |
| R136 | RG 887 OHM+-0,1%TK25 1206 | 0009.9952.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R137 | RG 200K +-1% TK100 0603 | 1093.6200.00 | PHILIPS_CO | RC 22 H | |
| ..142 | SMD RESISTOR EIA0603 | | | | |
| R143 | RG 1,62KOHM+-1%TK100 1206 | RG 0006.9997.00 | ROEDERSTEI | D25 | |
| ..148 | CHIP RESISTOR | | | | |
| R149 | RG 75,00HM+-0,1%TK25 1206 | 2016.2252.00 | PHILIPS_CO | MPC 01 | |
| ..164 | CHIP RESISTOR | | | | |
| R165 | RG 220R +-1% TK100 0603 | 0009.6953.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R166 | RG 18,2KOH+-0,1%TK25 1206 | 0009.7637.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR | | | | |
| R167 | RG 18,2KOH+-0,1%TK25 1206 | 0009.7637.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR | | | | |
| R168 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..171 | SMD RESISTOR EIA0603 | | | | |
| R172 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R173 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..176 | SMD RESISTOR EIA0603 | | | | |

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| Kennz. Comp. No. | Benennung Designation | | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|---|
| R177 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 03 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R178 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R179 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R180 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 NUR VAR/ONLY MOD: 04 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R181 ..221 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R222 | RG 6K8 +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.7037.00 | PHILIPS_CO | RC 22 H | |
| R223 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R224 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R225 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R226 ..238 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R239 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R240 ..258 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R259 | RG 121 OHM+-1%TK100 CHIP RESISTOR | 1206 | RG 0006.8903.00 | DRALORIC | CR 1206 | |
| R260 | RG 121 OHM+-1%TK100 CHIP RESISTOR | 1206 | RG 0006.8903.00 | DRALORIC | CR 1206 | |
| R261 | RG 200 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5608.00 | DRALORIC | CR 1206 | |
| R262 | RG 100 OHM+-1%TK100 CHIP RESISTOR | 1206 | RG 0006.8884.00 | DRALORIC | CR 1206 | |
| R263 ..265 | RG 470R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.6976.00 | PHILIPS_CO | RC 22 H | |
| R266 ..273 | RG 200 OHM+-0,1%TK25 CHIP RESISTOR | 1206 | 1110.3074.00 | PHILIPS_CO | MPC 01 | |
| R274 ..277 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R278 | RG 39R 1% 1W SMD-RESISTOR | 1218 | 1104.2786.00 | PHILIPS_CO | PRC201-39R 1% TK100 | |
| R279 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R280 | RG 20,0 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5472.00 | DRALORIC | CR 1206 | |
| R281 | RG 20,0 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5472.00 | DRALORIC | CR 1206 | |
| R282 | RG 20R 1% 1W SMD RESISTOR | 1218 | 1104.2734.00 | PHILIPS_CO | PRC201-20R 1% TK100 | |
| R283 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R284 | RG 20,0 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5472.00 | DRALORIC | CR 1206 | |
| R285 | RG 20,0 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5472.00 | DRALORIC | CR 1206 | |
| R286 | RG 1,0 KO +-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7595.00 | PHILIPS_CO | MPC 01 | |
| R287 | RG 2K2 +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.7008.00 | PHILIPS_CO | RC 22 H | |
| R288 ..293 | RG 20,0 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5472.00 | DRALORIC | CR 1206 | |
| R294 | RG 51,1 OHM+-1%TK100 CHIP RESISTOR | 1206 | RG 0006.8810.00 | DRALORIC | CR 1206 | |
| R295 ..314 | RG 100 OHM+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.8033.00 | PHILIPS_CO | MPC 01 | |
| R315 | RG 51,1 OHM+-1%TK100 CHIP RESISTOR | 1206 | RG 0006.8810.00 | DRALORIC | CR 1206 | |
| R316 ..331 | RG 100 OHM+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.8033.00 | PHILIPS_CO | MPC 01 | |
| R332 | RG 887 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9952.00 | PHILIPS_CO | MPC 01 | |
| R333 | RG 887 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9952.00 | PHILIPS_CO | MPC 01 | |
| R334 | RG 10,0 OHM+-1%TK100 CHIP -RESISTOR | 1206 | RG 0006.8649.00 | ROEDERSTEI | D25 | |
| R335 | RG 10,0 OHM+-1%TK100 CHIP -RESISTOR | 1206 | RG 0006.8649.00 | ROEDERSTEI | D25 | |

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| Kennz. Comp. No. | Benennung Designation | | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|---|
| R336 | RG 240 OHM+-0,1%TK25 | 1206 | 2035.3780.00 | PHILIPS_CO | MPC 01 | |
| ..341 | SMD-RESISTOR EIA1206 | | | | | |
| R342 | RG 392R+-1% TK100 | 0603 | 0010.9300.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | | |
| R343 | RG 10R +-1% TK100 | 0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | | |
| R344 | RG 100,0KO+-0,1%TK25 | 1206 | 0010.0655.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R345 | RG 10R +-1% TK100 | 0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | | |
| R346 | RG 100,0KO+-0,1%TK25 | 1206 | 0010.0655.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R347 | RG 9,09KOHM+-1%TK100 | 1206 | RG 0007.0787.00 | ROEDERSTEI | D25 | |
| ..349 | CHIP RESISTOR | | | | | |
| R350 | RG 137 OHM+-0,1%TK25 | 1206 | 0009.9252.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R351 | RG 221 OHM+-0,1%TK25 | 1206 | 1110.3080.00 | PHILIPS_CO | MPC 01 | |
| ..355 | CHIP RESISTOR | | | | | |
| R356 | RG 137 OHM+-0,1%TK25 | 1206 | 0009.9252.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R357 | RG 221 OHM+-0,1%TK25 | 1206 | 1110.3080.00 | PHILIPS_CO | MPC 01 | |
| ..361 | CHIP RESISTOR | | | | | |
| R362 | RG 330K +-1% TK100 | 0603 | 0009.7114.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | | |
| R363 | RG 330K +-1% TK100 | 0603 | 0009.7114.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | | |
| R364 | RG 10R +-1% TK100 | 0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| ..393 | SMD RESISTOR EIA0603 | | | | | |
| R394 | RG O-OHM WIDERSTAND | 1206 | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| | RESISTOR CHIP O-OHM | | | | | |
| R395 | RG 150 OHM+-0,1%TK25 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R396 | RG O-OHM WIDERSTAND | 1206 | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| | RESISTOR CHIP O-OHM | | | | | |
| R397 | RG O-OHM WIDERSTAND | 1206 | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| | RESISTOR CHIP O-OHM | | | | | |
| R398 | RG 150 OHM+-0,1%TK25 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R399 | RG O-OHM WIDERSTAND | 1206 | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| | RESISTOR CHIP O-OHM | | | | | |
| R400 | RG 825 OHM+-0,1%TK25 | 1206 | 0009.9930.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R401 | RG 825 OHM+-0,1%TK25 | 1206 | 0009.9930.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R402 | RG 475 OHM+-0,1%TK25 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R403 | RG 475 OHM+-0,1%TK25 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R404 | RG 301 OHM+-0,1%TK25 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R405 | RG 301 OHM+-0,1%TK25 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R406 | RG 475 OHM+-0,1%TK25 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| ..409 | SMD-RESISTOR EIA1206 | | | | | |
| R410 | RG 301 OHM+-0,1%TK25 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R411 | RG 301 OHM+-0,1%TK25 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R412 | RG 475 OHM+-0,1%TK25 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R413 | RG 475 OHM+-0,1%TK25 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R414 | RG 301 OHM+-0,1%TK25 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R415 | RG 301 OHM+-0,1%TK25 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R416 | RG 475 OHM+-0,1%TK25 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R417 | RG 301 OHM+-0,1%TK25 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R418 | RG 301 OHM+-0,1%TK25 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | | |
| R419 | RG 475 OHM+-0,1%TK25 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| ..421 | SMD-RESISTOR EIA1206 | | | | | |
| R422 | RG 150 OHM+-0,1%TK25 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| ..425 | SMD-RESISTOR EIA1206 | | | | | |
| R426 | RG O-OHM WIDERSTAND | 0603 | 0009.9369.00 | PHILIPS_CO | RC21 O OHM | |
| | SMD RESISTOR EIA0603 | | | | | |

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| Kennz. Comp. No. | Benennung Designation | | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|---|
| R427 | RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| R428 | RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| R429 | RG 475 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| R430 | RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| R431 | RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| R432 | RG 118 OHM+-0,1%TK25 RESISTOR | 1206 | 0010.3977.00 | PHILIPS_CO | MPC 01 | |
| R433 ..436 | RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| R437 | RG 0-OHM WIDERSTAND SMD RESISTOR EIA0603 | 0603 | 0009.9369.00 | PHILIPS_CO | RC21 0 OHM | |
| R438 | RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| R439 ..441 | RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| R442 | RG 475 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8110.00 | PHILIPS_CO | MPC 01 | |
| R443 ..445 | RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| R446 | RG 118 OHM+-0,1%TK25 RESISTOR | 1206 | 0010.3977.00 | PHILIPS_CO | MPC 01 | |
| R447 ..450 | RG 150 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| R451 | RG 2K2 +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.7008.00 | PHILIPS_CO | RC 22 H | |
| R452 | RG 12,1KOHM+-1%TK100 CHIP RESISTOR | 1206 | RG 0007.0841.00 | ROEDERSTEI | D25 | |
| R453 | RG 12,1KOHM+-1%TK100 CHIP RESISTOR | 1206 | RG 0007.0841.00 | ROEDERSTEI | D25 | |
| R454 | RG 470K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.7120.00 | PHILIPS_CO | RC 22 H | |
| R455 ..458 | RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| R459 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R460 | RG 51,0 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R461 | RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| R462 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R463 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R464 ..468 | RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| R469 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R470 | RG 1KO +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| R471 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R472 | RG 1KO +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| R473 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R474 ..476 | RG 1KO +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| R477 | RG 301R +-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| R478 ..480 | RG 1KO +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| R481 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R482 | RG 2,0KOHM+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7608.00 | PHILIPS_CO | MPC 01 | |
| R483 | RG 2,0KOHM+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7608.00 | PHILIPS_CO | MPC 01 | |
| R484 ..489 | RG 2KO +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 1097.6328.00 | PHILIPS_CO | RC 22 H | |
| R490 | RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |
| R491 | RG 301 OHM+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0009.9269.00 | PHILIPS_CO | MPC 01 | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| R492 | RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8810.00 | DRALORIC | CR 1206 | |
| R493 | RG 51,1 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.8810.00 | DRALORIC | CR 1206 | |
| R494 | RG 1KO +-1% TK100 1206 CHIP RESISTOR | RG 0006.7271.00 | ROEDERSTEI | D25 | |
| R495 ..527 | RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R528 | RG 27,4 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9046.00 | PHILIPS_CO | RC 22 H | |
| R529 | RG 27,4 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9046.00 | PHILIPS_CO | RC 22 H | |
| R530 ..535 | RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R536 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R537 | RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R538 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R539 | RG 2KO +-1% TK100 0603 SMD RESISTOR EIA0603 | 1097.6328.00 | PHILIPS_CO | RC 22 H | |
| R540 | RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R541 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R542 | RG 301R +-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| R543 | RG 1KO +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| R544 | RG 100K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R545 | RG 100K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R546 | RG 1K21 +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0010.9817.00 | PHILIPS_CO | RC 22 H | |
| R547 | RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.7020.00 | PHILIPS_CO | RC 22 H | |
| R548 | RG 100K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R549 | RG 100K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R550 | RG 1K21 +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0010.9817.00 | PHILIPS_CO | RC 22 H | |
| R551 | RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.7020.00 | PHILIPS_CO | RC 22 H | |
| R552 ..557 | RG 20KOH +-0,1% TK25 1206 SMD-RESISTOR | 0009.7643.00 | PHILIPS_CO | MPC 01 | |
| R558 | RG 619 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9074.00 | DRALORIC | CR 1206 | |
| R559 | RG 619 OHM+-1%TK100 1206 CHIP RESISTOR | RG 0006.9074.00 | DRALORIC | CR 1206 | |
| R560 ..563 | RG 274 OHM+-0,1%TK25 1206 CHIP RESISTOR | 1110.3097.00 | PHILIPS_CO | MPC 01 | |
| R564 | RG 4K7 +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.7020.00 | PHILIPS_CO | RC 22 H | |
| R565 | RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| R566 | RG 274 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5637.00 | DRALORIC | CR 1206 | |
| R567 | RG 274 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5637.00 | DRALORIC | CR 1206 | |
| R568 | RG 2K2 +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.7008.00 | PHILIPS_CO | RC 22 H | |
| R569 | RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| R570 | RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R571 | RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R572 | RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R573 | RG 10,0KOH+-0,1%TK25 1206 SMD-RESISTOR | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R574 | RG 100K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R575 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |

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| Kennz. Comp. No. | Benennung Designation | | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|---|
| R576 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R577 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R578 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R579 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R580 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R581 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R582 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R583 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R584 | RG 1KO +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| R585 | RG 10R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| R586 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R587 | RG 10,0 OHM+-1%TK100 CHIP -RESISTOR | 1206 | RG 0006.8649.00 | ROEDERSTEI | D25 | |
| R588 ..592 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R593 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R594 | RG 51,0 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R595 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R596 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R597 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R598 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R599 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R600 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R601 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R602 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R603 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R604 ..608 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R609 ..611 | RG 20KOH +-0,1% TK25 SMD-RESISTOR | 1206 | 0009.7643.00 | PHILIPS_CO | MPC 01 | |
| R612 ..616 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R617 ..619 | RG 20KOH +-0,1% TK25 SMD-RESISTOR | 1206 | 0009.7643.00 | PHILIPS_CO | MPC 01 | |
| R620 ..622 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R623 | RG 18K2+-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0010.9317.00 | PHILIPS_CO | RC 22 H | |
| R624 | RG 18K2+-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0010.9317.00 | PHILIPS_CO | RC 22 H | |
| R625 | RG 21,5KOH+-0,1%TK25 RESISTOR | 1206 | 0010.2929.00 | PHILIPS_CO | MPC 01 | |
| R626 | RG 21,5KOH+-0,1%TK25 RESISTOR | 1206 | 0010.2929.00 | PHILIPS_CO | MPC 01 | |
| R627 | RG 49,9KOH+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0010.0649.00 | PHILIPS_CO | MPC 01 | |
| R628 | RG 49,9KOH+-0,1%TK25 SMD-RESISTOR EIA1206 | 1206 | 0010.0649.00 | PHILIPS_CO | MPC 01 | |
| R629 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R630 | RG 20KOH +-0,1% TK25 SMD-RESISTOR | 1206 | 0009.7643.00 | PHILIPS_CO | MPC 01 | |
| R631 | RG 33K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.7066.00 | PHILIPS_CO | RC 22 H | |
| R632 | RG 33,2 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5520.00 | ROEDERSTEI | D25 | |

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| Kennz. Comp. No. | Benennung Designation | | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|---|
| R633 | RG 5K11 +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 1097.6334.00 | PHILIPS_CO | RC 22 H | |
| R634 | RG 5K11 +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 1097.6334.00 | PHILIPS_CO | RC 22 H | |
| R635 | RG 33,2 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5520.00 | ROEDERSTEI | D25 | |
| R636 | RG 33,2 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5520.00 | ROEDERSTEI | D25 | |
| R637 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R638 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R639 | RG 15K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.7043.00 | PHILIPS_CO | RC 22 H | |
| R640 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R641 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R642 ..644 | RG 100,0KOH+-1%TK100 CHIP RESISTOR | 1206 | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R645 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R646 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R647 | RG 24,3 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.8991.00 | PHILIPS_CO | RC 22 H | |
| R648 | RG 100,0KOH+-1%TK100 CHIP RESISTOR | 1206 | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R649 | RG 100,0KOH+-1%TK100 CHIP RESISTOR | 1206 | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R650 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R651 | RG 100,0KOH+-1%TK100 CHIP RESISTOR | 1206 | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R652 | RG 270R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0010.9581.00 | PHILIPS_CO | RC 22 H | |
| R653 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R654 | RG 39R 1% 1W SMD-RESISTOR | 1218 | 1104.2786.00 | PHILIPS_CO | PRC201-39R 1% TK100 | |
| R655 ..658 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R659 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R660 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R661 ..664 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R665 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R666 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R667 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R668 | RG 27,4 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9046.00 | PHILIPS_CO | RC 22 H | |
| R669 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R670 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R671 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R672 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R673 ..677 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R678 ..680 | RG 10R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| R681 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R682 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R683 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R684 | RG 301R +-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| R685 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |

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| Kennz. Comp. No. | Benennung Designation | | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|---|
| R686 | RG 5R6 1% 1W SMD RESISTOR | 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| R687 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R688 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R689 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R690 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R691 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R692 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R693 | RG 100K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5363.00 | PHILIPS_CO | RC 22 H | |
| R694 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R695 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R696 | RG 100,0KOH+-1%TK100 CHIP RESISTOR | 1206 | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R697 | RG 100,0KOH+-1%TK100 CHIP RESISTOR | 1206 | RG 0007.1948.00 | ROEDERSTEI | D25 | |
| R698 ..701 | RG 0-OHM WIDERSTAND RESISTOR CHIP 0-OHM | 1206 | RG 0007.5108.00 | DRALORIC | CR 1206 | |
| R702 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R703 | RG 100R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R704 | RG 301R +-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| R705 | RG 470R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.6976.00 | PHILIPS_CO | RC 22 H | |
| R706 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R707 | RG 1,0 KO +-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7595.00 | PHILIPS_CO | MPC 01 | |
| R708 | RG 10,0KOH+-0,1%TK25 SMD-RESISTOR | 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| R709 | RG 22,1 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5489.00 | DRALORIC | CR 1206 | |
| R710 | RG 2,43KOH+-0,1%TK25 RESISTOR | 1206 | 0010.1974.00 | PHILIPS_CO | MPC 01 | |
| R711 | RG 33,2 OHM+-1%TK100 RESISTOR CHIP | 1206 | RG 0007.5520.00 | ROEDERSTEI | D25 | |
| R712 ..722 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R723 | RG 470R +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0009.6976.00 | PHILIPS_CO | RC 22 H | |
| R724 | RG 24,3 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.8991.00 | PHILIPS_CO | RC 22 H | |
| R725 | RG 27,4 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9046.00 | PHILIPS_CO | RC 22 H | |
| R726 | RG 27,4 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9046.00 | PHILIPS_CO | RC 22 H | |
| R727 | RG 51,0 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R728 | RG 51,0 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R729 | RG 27,4 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9046.00 | PHILIPS_CO | RC 22 H | |
| R730 | RG 27,4 OHM+-1%TK100 SMD RESISTOR EIA0603 | 0603 | 0009.9046.00 | PHILIPS_CO | RC 22 H | |
| R731 | RG 20R 1% 1W SMD RESISTOR | 1218 | 1104.2734.00 | PHILIPS_CO | PRC201-20R 1% TK100 | |
| R732 | RG 20R 1% 1W SMD RESISTOR | 1218 | 1104.2734.00 | PHILIPS_CO | PRC201-20R 1% TK100 | |
| R733 | RG 7K5 +-1% TK100 SMD RESISTOR EIA0603 | 0603 | 0010.8440.00 | PHILIPS_CO | RC 22 H | |
| R734 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R735 | RG 75RO +-1%TK200 SMD RESISTOR | 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| R736 | RG 75RO +-1%TK200 SMD RESISTOR | 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| R737 | RG 10K +-1% TK100 SMD RESISTOR EIA0603 | 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| R738 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R739 | RG 22,1 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5489.00 | DRALORIC | CR 1206 | |
| R740 | RG 22,1 OHM+-1%TK100 1206 RESISTOR CHIP | RG 0007.5489.00 | DRALORIC | CR 1206 | |
| R741 | RG 27,4 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9046.00 | PHILIPS_CO | RC 22 H | |
| R742 | RG 2,43KOH+-0,1%TK25 1206 RESISTOR | 0010.1974.00 | PHILIPS_CO | MPC 01 | |
| R743 | RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R744 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R745 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R746 | RG 200R +-1% TK100 0603 SMD RESISTOR EIA0603 | 1097.6386.00 | PHILIPS_CO | RC 22 H | |
| R747 | RG 680R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6982.00 | PHILIPS_CO | RC 22 H | |
| R748 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R749 | RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| R750 | RG 680R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6982.00 | PHILIPS_CO | RC 22 H | |
| R751 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R752 | RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R753 | RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R754 | RG 20K +-1% TK100 0603 SMD RESISTOR EIA0603 | 0010.9100.00 | PHILIPS_CO | RC 22 H | |
| R755 | RG 20K +-1% TK100 0603 SMD RESISTOR EIA0603 | 0010.9100.00 | PHILIPS_CO | RC 22 H | |
| R756 | RS 0,25W 50 OHM+-20% SMD POTENTIOMETER | RS 0007.9578.00 | BI_TECHNOL | 23 B R... TR | |
| R757 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R758 | RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6947.00 | PHILIPS_CO | RC 22 H | |
| R759 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R760 | RG 10R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| R761 | RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 | 0009.9369.00 | PHILIPS_CO | RC21 0 OHM | |
| R762 | RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 | 0009.9369.00 | PHILIPS_CO | RC21 0 OHM | |
| R763 ..766 | RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 | 0009.9369.00 | PHILIPS_CO | RC21 0 OHM | |
| R767 | RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 | 0009.9369.00 | PHILIPS_CO | RC21 0 OHM | |
| R768 | RG 0-OHM WIDERSTAND 0603 SMD RESISTOR EIA0603 | 0009.9369.00 | PHILIPS_CO | RC21 0 OHM | |
| R769 ..776 | RN 56R X4 5% SMD1206 RESISTOR NETWORK | 1100.4384.00 | PHILIPS_CO | 2350 034 10569 | |
| R777 ..780 | RG 10K +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| R781 | RG 909R +-1% TK100 0603 SMD RESISTOR EIA0603 | 2074.8943.00 | PHILIPS_CO | RC 22 H | |
| R782 | RG 909R +-1% TK100 0603 SMD RESISTOR EIA0603 | 2074.8943.00 | PHILIPS_CO | RC 22 H | |
| R783 | RG 3K92 +-1% TK100 0603 SMD RESISTOR EIA0603 | 0010.8427.00 | PHILIPS_CO | RC 22 H | |
| R784 | RG 3K92 +-1% TK100 0603 SMD RESISTOR EIA0603 | 0010.8427.00 | PHILIPS_CO | RC 22 H | |
| R785 | RG 150R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6947.00 | PHILIPS_CO | RC 22 H | |
| T1 | LU HF-UEBERTR.200MHZ SMD RF-TRANSFORMER | 1051.5187.00 | MINI-CIRCU | T1-1T-KK TR | |
| U1 ..3 | BO LM339D 4X COMPAR COMPARATOR | 0007.3757.00 | SIGNETICS | LM-339D | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| V1 | AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE | AD 0911.0092.00 | VALVO | BAV99 | |
| ..7 | | | | | |
| V8 | AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE | 0010.9346.00 | PHILIPS_SE | BAS216 | |
| V10 | AK BSV52 N 12V 100MA TRANSISTOR | AK 0007.3434.00 | PHILIPS | BSV52 | |
| V11 | AE BZX284-B10 0,4W ZDI ZENER DIODE | 0048.3551.00 | PHILIPS_SE | BZX284-B10 | |
| V12 | BO LT1004CS-1.2 VREF BANDGAP REF 1.2V | 0857.9879.00 | LINEAR_TEC | LT1004CS8-1.2 | |
| V13 | AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE | AD 0911.0092.00 | VALVO | BAV99 | |
| ..21 | | | | | |
| V22 | AE BZX284-B6V8 0,4W ZDI ZENER DIODE | 0048.3545.00 | PHILIPS_SE | BZX284-B6V8 | |
| V23 | AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE | 0010.9346.00 | PHILIPS_SE | BAS216 | |
| ..44 | | | | | |
| V45 | AE BZX284-B10 0,4W ZDI ZENER DIODE | 0048.3551.00 | PHILIPS_SE | BZX284-B10 | |
| V46 | AE SM6T6V8A 6,8V SUPPR SUPPRESSOR DIODE | 0009.8733.00 | SGS-THOMSO | SM6T6V8A | |
| ..50 | | | | | |
| V51 | AE BZX284-B5V1 0,4W ZDI ZENER DIODE | 0048.3516.00 | PHILIPS_SE | BZX284-B5V1 | |
| V52 | AE BZX284-B2V7 0,4W ZDI ZENER DIODE | 0048.3345.00 | PHILIPS_SE | BZX284-B2V7 | |
| V53 | AE BZX284-B2V7 0,4W ZDI ZENER DIODE | 0048.3345.00 | PHILIPS_SE | BZX284-B2V7 | |
| V54 | AK BFP183 N 12V 65MA TRANSISTOR | AK 6075.5650.00 | SIEMENS | BFP183 (RHS) | |
| V55 | AK BCX71J P 45V 100MA TRANSISTOR | AK 0007.2096.00 | VALVO | BCX71J GEGURTET | |
| V56 | AK BCX71J P 45V 100MA TRANSISTOR | AK 0007.2096.00 | VALVO | BCX71J GEGURTET | |
| V57 | AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE | 0010.9346.00 | PHILIPS_SE | BAS216 | |
| V58 | AD BAV70 70V DUO UDI DUAL DIODE COMMON CATHODE | 0007.9278.00 | PHILIPS | BAV70 | |
| ..65 | | | | | |
| V66 | AE HSMS2805 1+1 SCHOTTKY SCHOTTKY DIODE PAIR | 1002.4974.00 | HEWLETT_PA | HSMS2805 L31 | |
| V67 | AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE | 0010.9346.00 | PHILIPS_SE | BAS216 | |
| V68 | AE SM6T6V8A 6,8V SUPPR SUPPRESSOR DIODE | 0009.8733.00 | SGS-THOMSO | SM6T6V8A | |
| V69 | AE BZX284-B8V2 0,4W ZDI ZENER DIODE | 0048.4306.00 | PHILIPS_SE | BZX284-B8V2 | |
| V70 | AE BZX284-B10 0,4W ZDI ZENER DIODE | 0048.3551.00 | PHILIPS_SE | BZX284-B10 | |
| V71 | AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE | 0010.9346.00 | PHILIPS_SE | BAS216 | |
| V72 | AE BB147 92-2,8P VHF-CDI VHF VARIABLE CAPACITANCE | 0048.5160.00 | PHILIPS_SE | BB147 | |
| V73 | AE BB147 92-2,8P VHF-CDI VHF VARIABLE CAPACITANCE | 0048.5160.00 | PHILIPS_SE | BB147 | |
| V74 | AE BB147 92-2,8P VHF-CDI VHF VARIABLE CAPACITANCE | 0048.5160.00 | PHILIPS_SE | BB147 | |
| V75 | AE BB147 92-2,8P VHF-CDI VHF VARIABLE CAPACITANCE | 0048.5160.00 | PHILIPS_SE | BB147 | |
| V76 | AE BZX284-B10 0,4W ZDI ZENER DIODE | 0048.3551.00 | PHILIPS_SE | BZX284-B10 | |
| V77 | AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE | AD 0911.0092.00 | VALVO | BAV99 | |
| V78 | AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE | AD 0911.0092.00 | VALVO | BAV99 | |
| V79 | AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE | 0010.9346.00 | PHILIPS_SE | BAS216 | |
| V80 | AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE | 0010.9346.00 | PHILIPS_SE | BAS216 | |
| V81 | AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE | AD 0911.0092.00 | VALVO | BAV99 | |
| W30 | DY FLACHBANDKABEL | 1110.2855.00 | | | |
| X1 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X2 | FP STECKERLEISTE 10P.GER CONNECTOR 10POL. | FP 0815.7603.00 | J_S_T_DEUT | B10P-VH-B | |
| X3 | FP STIFTLEISTE 8P.R2,54 PIN CONNECTOR | FP 0009.6182.00 | | | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| X4 | FP STIFTLEISTE 8P.R2,54 PIN CONNECTOR | FP 0009.6182.00 | | | |
| X5 ..9 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X10 | FP STECKERLEISTE 26P.WIN CONNECTOR 26P | FP 0099.9405.00 | BERG_ELEKT | 71922-126 | |
| X11 ..13 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X14 | FP E-PRESS STIFTLEI.4P 2R CONNECTOR | 0048.4812.00 | | | |
| X15 ..19 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X20 | FP STECKERLEISTE 26P.WIN CONNECTOR 26P | FP 0099.9405.00 | BERG_ELEKT | 71922-126 | |
| X21 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X22 | FP E-PRESS STIFTLEI.4P 2R CONNECTOR | 0048.4812.00 | | | |
| X23 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X24 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X25 | FP STIFTLEISTE 20P.2REIH. CONNECTOR 20P. | FP 0520.6521.00 | BINDER | 11-0209-00-20 | |
| X26 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X27 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X28 | FP E-PRESS STIFTLEISTE 2P CONNECTOR | 0048.4706.00 | | | |
| X29 | FP E-PRESS STIFTL.10P. 2R CONNECTOR | 0048.4970.00 | | | |
| X30 | FP STECKERLEISTE 10POL. CONNECTOR 10P | FP 6040.4611.00 | | | |
| X31 | FP E-PRESS STIFTL.10P. 2R CONNECTOR | 0048.4970.00 | | | |
| X32 | FP E-PRESS STIFTL.10P. 2R CONNECTOR | 0048.4970.00 | | | |
| X33 | FP E-PRESS STIFTLEISTE 2P CONNECTOR | 0048.4706.00 | | | |
| X34 | FP E-PRESS STIFTLEISTE 2P CONNECTOR | 0048.4706.00 | | | |
| X35 | FP E-PRESS STIFTLEISTE 3P CONNECTOR | 0048.4712.00 | | | |
| X36 | FP E-PRESS STIFTLEISTE 3P CONNECTOR | 0048.4712.00 | | | |
| X37 | FP E-PRESS STIFTLEISTE 4P CONNECTOR | 0048.4729.00 | | | |
| X38 | FP E-PRESS STIFTLEISTE 4P CONNECTOR | 0048.4729.00 | | | |
| X39 | FP STIFTLEISTE 34P. SMD CONNECTOR | 1100.4503.00 | SPEED_TECH | H762-9708-346 UNGEGU | |
| X40 | FP STIFTLEISTE 34P. SMD CONNECTOR | 1100.4503.00 | SPEED_TECH | H762-9708-346 UNGEGU | |
| X60 | FP STECKERLEISTE 40P.GER CONNECTOR | FP 0624.1419.00 | BERG_ELEKT | 71918-140 | |
| X61 | FP STECKERLEISTE 2P.GER CONNECTOR 2POL. | FP 0815.7584.00 | J_S_T_DEUT | B2P-VH-B | |
| X63 | FP BUCHSENLEISTE 50P.R=2 CONNECTOR 50P | FP 4037.2125.00 | BERG_ELEKT | 87173-150 | |
| X100 ..104 | FJ WINKELEINBAUBUCHSE BNC ANGLE BNC | FJ 1051.4380.00 | AMP | 227677-1 +2X1-329631 | |
| X105 | FP STECKERLEISTE 26P.WIN CONNECTOR 26P | FP 0099.9405.00 | BERG_ELEKT | 71922-126 | |
| X106 | FM STECKERLEISTE 9P.WINK CONNECTOR 9POL | FM 4036.4818.00 | FCT | F09P5G1-K407 | |
| X107 ..109 | FJ WINKELEINBAUBUCHSE BNC ANGLE BNC | FJ 1051.4380.00 | AMP | 227677-1 +2X1-329631 | |
| X111 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X112 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X115 ..118 | FJ WINKELEINBAUBUCHSE BNC ANGLE BNC | FJ 1051.4380.00 | AMP | 227677-1 +2X1-329631 | |
| X123 | FP E-PRESS STIFTLEISTE 2P CONNECTOR | 0048.4706.00 | | | |
| X124 | FP E-PRESS STIFTLEISTE 2P CONNECTOR | 0048.4706.00 | | | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| X133 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X134 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |

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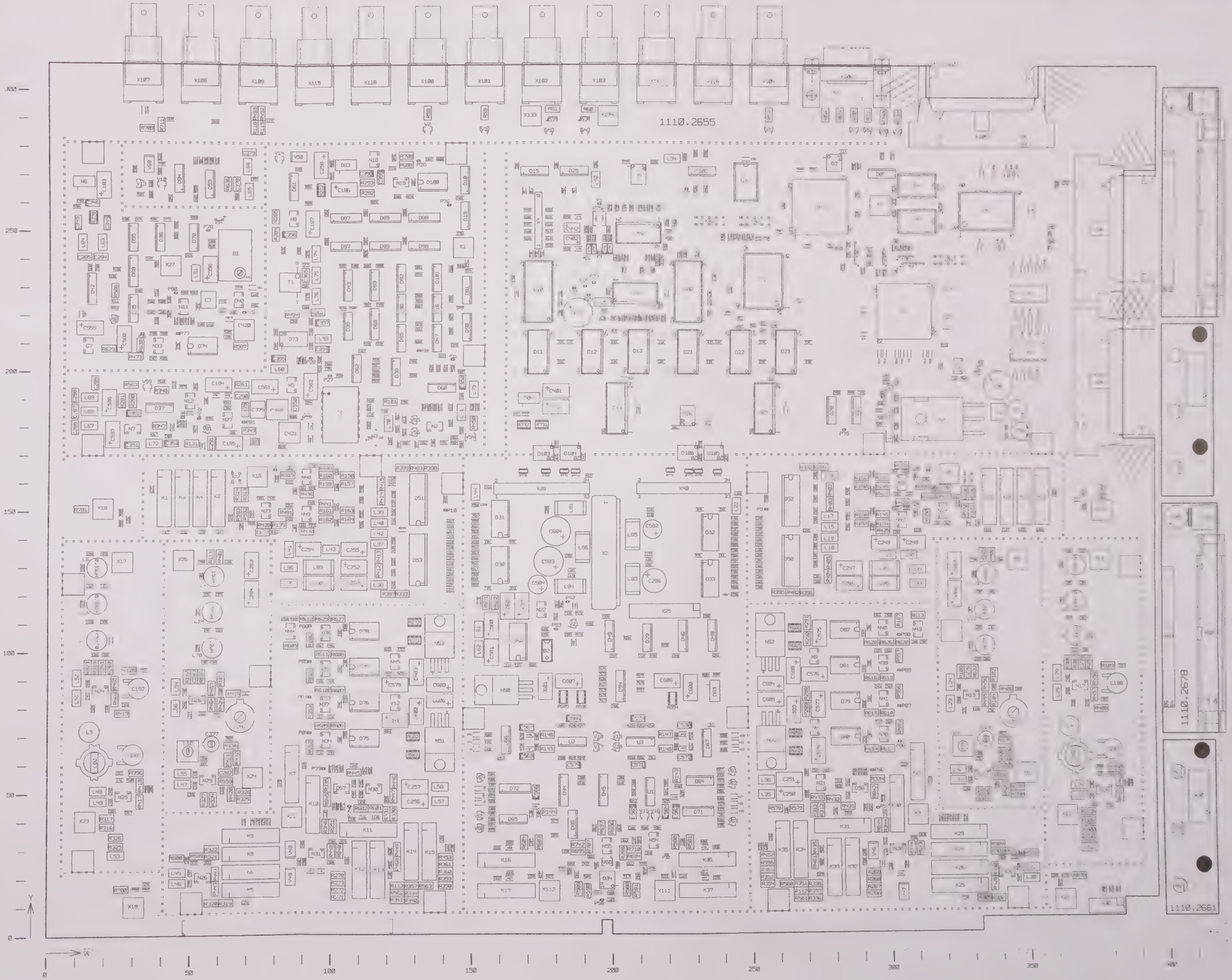



DARSTELLUNG SEITE B
VIEW ON SIDE B

ACHTUNG: ESD!
ELEKTROSTATISCH GEFÄHRDETES BAUELEMENT / BAUGRUPPE. EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES. REQUIRE A SPECIAL HANDLING.

BINDENDE ANGABEN ÜBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

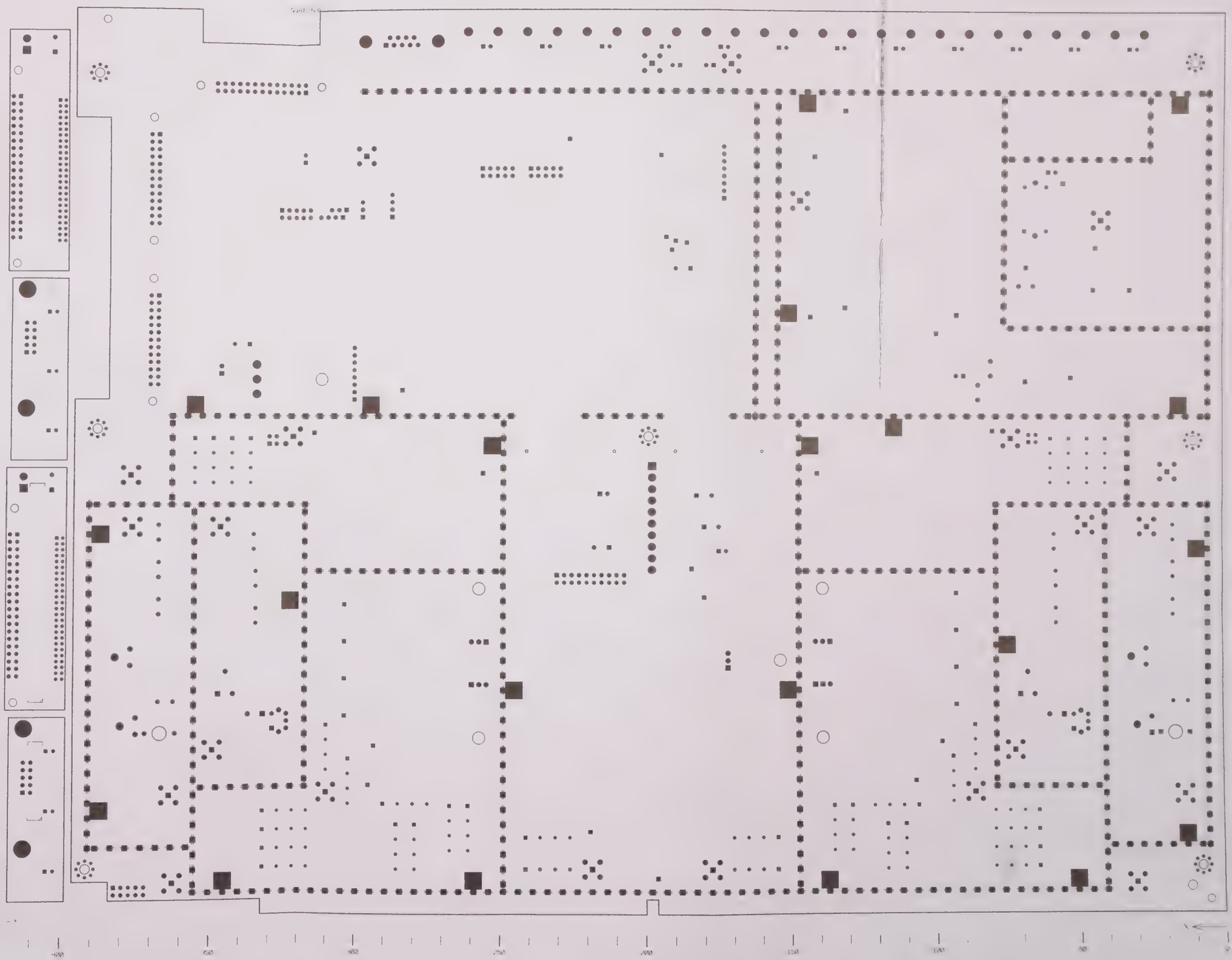
| | | | |
|---|---|---|---|
| BEARB. | | SR | |
| GEPR. | | SR | |
| NORM | | | |
| PLOTT | 98-08-10 | BOHMAIER | |

ROHDE&SCHWARZ

BENENNUNG
IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT

ZEICHN.-NR.
1110.2532.01 D

BLATT-NR.
1+



DARSTELLUNG SEITE A
VIEW ON SIDE A

ACHTUNG: ESD!
ELEKTROSTATISCH GEFÄHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC-SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING.

EINZELNE ANGABEN ÜBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTÜCKTE BAUTEILE SIEHE SA.

FOR SINGLE INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
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| | | | | | |

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# XY-Liste

# XY List

Erklärung der Spaltenbezeichnungen:

| | |
|---|---|
| el. Kennz. | Bauelement-Kennzeichen |
| Seite | Leiterplatten-Seite, auf der sich das Bauelement befindet |
| X/Y | Koordinaten (in Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt |
| Planq., Bl. | Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement |

Explanation of column designations:

| | |
|---|---|
| Part | Identification of instrument part |
| Side | Side of the PC board on which instrument part is positioned |
| X/Y | Coordinates (in units of millimeters) of the component on the PC board in reference to zero point |
| Sqr, Pg | Square and page of the diagram for the respective instrument part |

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| B1 | B | 69 | 234 | 5B | 19 |
| B2 | B | 176 | 103 | 5B | 27 |
| C1 | B | 340 | 188 | 2F | 6 |
| C2 | B | 318 | 251 | 3D | 7 |
| C3 | B | 56 | 229 | 3B | 19 |
| C4 | B | 321 | 216 | 2E | 7 |
| C5 | B | 290 | 213 | 2E | 7 |
| C6 | B | 307 | 206 | 2E | 7 |
| C7 | B | 321 | 220 | 3E | 7 |
| C8 | B | 302 | 237 | 3E | 7 |
| C9 | B | 290 | 222 | 3E | 7 |
| C10 | B | 255 | 248 | 3E | 7 |
| C11 | B | 269 | 225 | 4E | 7 |
| C12 | B | 243 | 229 | 4E | 7 |
| C13 | B | 252 | 248 | 4E | 7 |
| C14 | B | 254 | 217 | 4E | 7 |
| C15 | B | 345 | 215 | 1F | 7 |
| C16 | B | 323 | 197 | 5F | 7 |
| C17 | B | 284 | 279 | 1F | 7 |
| C18 | B | 218 | 210 | 4E | 8 |
| C19 | B | 210 | 187 | 5E | 8 |
| C20 | B | 218 | 203 | 4E | 8 |
| C21 | B | 183 | 211 | 2E | 8 |
| C22 | B | 183 | 203 | 2E | 8 |
| C23 | B | 184 | 211 | 3E | 8 |
| C24 | B | 202 | 203 | 3E | 8 |
| C25 | B | 200 | 211 | 3E | 8 |
| C26 | B | 182 | 227 | 1E | 8 |
| C27 | B | 182 | 226 | 2E | 8 |
| C28 | B | 166 | 229 | 2E | 8 |
| C29 | B | 182 | 222 | 1E | 8 |
| C30 | B | 166 | 273 | 3F | 28 |
| C31 | B | 255 | 211 | 3E | 9 |
| C32 | B | 238 | 211 | 3E | 9 |
| C33 | B | 255 | 203 | 3E | 9 |
| C34 | B | 236 | 211 | 2E | 9 |
| C35 | B | 236 | 203 | 2E | 9 |
| C36 | B | 272 | 210 | 3E | 9 |
| C37 | B | 263 | 187 | 5E | 9 |
| C38 | B | 272 | 203 | 4E | 9 |
| C39 | B | 180 | 273 | 3F | 28 |
| C40 | B | 235 | 227 | 1E | 9 |
| C41 | B | 235 | 226 | 1E | 9 |
| C42 | B | 220 | 229 | 2E | 9 |
| C43 | B | 235 | 222 | 2E | 9 |
| C44 | B | 318 | 265 | 3C | 11 |
| C45 | B | 333 | 244 | 1D | 11 |
| C46 | B | 351 | 259 | 1D | 11 |
| C47 | B | 333 | 272 | 1D | 11 |
| C48 | B | 288 | 256 | 2E | 28 |
| C49 | B | 272 | 273 | 1E | 28 |
| C50 | B | 288 | 264 | 1E | 28 |
| C51 | B | 279 | 245 | 2E | 28 |
| C52 | B | 262 | 259 | 2E | 28 |
| C53 | B | 271 | 245 | 2E | 28 |
| C54 | B | 345 | 236 | 4F | 28 |
| C55 | B | 249 | 276 | 2C | 28 |
| C56 | B | 337 | 195 | 2F | 6 |
| C57 | B | 347 | 185 | 3F | 6 |
| C58 | B | 345 | 178 | 3F | 6 |
| C59 | B | 358 | 245 | 2D | 7 |
| C60 | B | 358 | 250 | 2C | 7 |
| C61 | B | 224 | 180 | 4E | 9 |
| C62 | B | 241 | 150 | 1F | 12 |
| C63 | B | 241 | 134 | 1E | 12 |
| C64 | B | 155 | 139 | 1F | 15 |
| C65 | B | 155 | 123 | 1E | 15 |
| C66 | B | 404 | 145 | 2C | 29 |
| C67 | B | 130 | 269 | 2D | 21 |
| C68 | B | 55 | 191 | 3B | 20 |
| C69 | B | 64 | 178 | 3C | 20 |
| C70 | B | 337 | 78 | 5D | 13 |
| C71 | B | 60 | 78 | 5D | 16 |
| C72 | B | 177 | 187 | 1F | 10 |
| C73 | B | 204 | 237 | 3E | 10 |
| C74 | B | 373 | 105 | 3C | 13 |
| C75 | B | 377 | 55 | 6C | 13 |
| C76 | B | 26 | 55 | 6C | 16 |
| C77 | B | 22 | 105 | 3C | 16 |
| C78 | B | 45 | 210 | 3C | 19 |
| C79 | B | 104 | 82 | 6C | 26 |
| C80 | B | 104 | 69 | 6D | 26 |
| C81 | B | 104 | 95 | 6B | 26 |
| C82 | B | 104 | 107 | 6A | 26 |
| C83 | B | 293 | 82 | 2C | 26 |
| C84 | B | 293 | 69 | 2D | 26 |
| C85 | B | 293 | 95 | 2B | 26 |
| C86 | B | 293 | 107 | 2A | 26 |
| C87 | B | 330 | 115 | 3D | 13 |
| C88 | B | 53 | 115 | 3D | 16 |
| C89 | B | 333 | 108 | 3E | 13 |
| C90 | B | 333 | 121 | 3E | 13 |
| C91 | B | 57 | 121 | 3E | 16 |
| C92 | B | 57 | 108 | 3E | 16 |
| C93 | B | 333 | 61 | 6E | 13 |
| C94 | B | 56 | 61 | 6E | 16 |
| C95 | B | 213 | 131 | 2D | 6 |
| C96 | B | 213 | 133 | 3D | 6 |
| C97 | B | 329 | 146 | 7D | 12 |
| C98 | B | 347 | 27 | 8A | 13 |
| C99 | B | 262 | 44 | 3D | 14 |
| C100 | B | 225 | 33 | 8D | 14 |
| C101 | B | 208 | 37 | 4E | 14 |
| C102 | B | 210 | 34 | 3E | 14 |
| C103 | B | 199 | 12 | 8E | 14 |
| C104 | B | 68 | 145 | 7D | 15 |
| C105 | B | 49 | 27 | 8A | 16 |
| C106 | B | 112 | 41 | 3D | 17 |
| C107 | B | 171 | 33 | 8D | 17 |
| C108 | B | 37 | 219 | 2B | 19 |
| C109 | B | 64 | 213 | 4A | 19 |
| C110 | B | 72 | 228 | 5B | 19 |
| C111 | B | 37 | 228 | 2A | 19 |
| C112 | B | 43 | 181 | 2B | 20 |
| C113 | B | 44 | 195 | 2A | 20 |
| C114 | B | 74 | 175 | 3B | 20 |
| C115 | B | 152 | 188 | 7B | 20 |
| C116 | B | 337 | 143 | 2C | 23 |
| C117 | B | 332 | 145 | 2B | 23 |
| C118 | B | 314 | 54 | 3C | 23 |
| C119 | B | 306 | 59 | 3B | 23 |
| C120 | B | 42 | 290 | 2B | 18 |
| C121 | B | 324 | 39 | 4C | 23 |
| C122 | B | 210 | 98 | 2F | 27 |
| C123 | B | 349 | 143 | 3C | 23 |
| C124 | B | 327 | 39 | 5B | 23 |
| C125 | B | 322 | 39 | 5C | 23 |
| C126 | B | 344 | 59 | 5D | 13 |
| C127 | B | 343 | 143 | 5C | 23 |
| C128 | B | 53 | 143 | 5B | 23 |
| C129 | B | 67 | 59 | 5D | 16 |
| C130 | B | 74 | 39 | 5B | 23 |
| C131 | B | 69 | 39 | 5A | 23 |
| C132 | B | 47 | 143 | 3B | 23 |
| C133 | B | 308 | 156 | 6A | 12 |
| C134 | B | 72 | 39 | 4B | 23 |
| C135 | B | 309 | 165 | 6B | 12 |
| C136 | B | 109 | 41 | 8A | 23 |
| C137 | B | 98 | 43 | 7B | 23 |
| C138 | B | 117 | 41 | 8B | 23 |
| C139 | B | 311 | 143 | 6C | 12 |
| C140 | B | 309 | 152 | 6C | 12 |
| C141 | B | 298 | 41 | 7C | 23 |
| C142 | B | 280 | 42 | 8C | 23 |
| C143 | B | 371 | 81 | 4C | 13 |
| C144 | B | 91 | 59 | 3A | 23 |
| C145 | B | 82 | 54 | 3B | 23 |
| C146 | B | 64 | 147 | 2A | 23 |
| C147 | B | 60 | 143 | 2B | 23 |
| C148 | B | 290 | 27 | 5B | 24 |
| C149 | B | 275 | 20 | 6C | 24 |
| C150 | B | 290 | 25 | 5C | 24 |
| C151 | B | 380 | 44 | 6C | 13 |
| C152 | B | 257 | 33 | 8B | 24 |
| C153 | B | 253 | 30 | 7C | 24 |
| C154 | B | 255 | 31 | 8C | 24 |
| C155 | B | 338 | 52 | 6E | 13 |
| C156 | B | 332 | 79 | 4E | 13 |
| C157 | B | 142 | 31 | 8A | 24 |
| C158 | B | 144 | 30 | 7A | 24 |
| C159 | B | 140 | 33 | 8A | 24 |
| C160 | B | 366 | 80 | 5C | 13 |
| C161 | B | 106 | 25 | 5A | 24 |
| C162 | B | 121 | 20 | 6A | 24 |
| C163 | B | 373 | 44 | 6C | 13 |
| C164 | B | 354 | 143 | 6A | 25 |
| C165 | B | 360 | 157 | 6A | 25 |
| C166 | B | 327 | 11 | 7A | 25 |
| C167 | B | 318 | 39 | 7A | 25 |
| C168 | B | 327 | 50 | 6D | 13 |
| C169 | B | 320 | 39 | 8A | 25 |
| C170 | B | 76 | 39 | 8D | 25 |
| C171 | B | 327 | 77 | 5D | 13 |
| C172 | B | 78 | 39 | 7D | 25 |
| C173 | B | 69 | 11 | 7C | 25 |
| C174 | B | 36 | 157 | 6C | 25 |
| C175 | B | 42 | 143 | 6D | 25 |
| C176 | B | 153 | 119 | 5D | 27 |
| C177 | B | 213 | 135 | 3D | 6 |
| C178 | B | 91 | 228 | 8A | 21 |
| C179 | B | 185 | 127 | 2E | 6 |
| C180 | B | 213 | 149 | 2E | 6 |
| C181 | B | 213 | 150 | 3E | 6 |
| C182 | B | 185 | 129 | 3E | 6 |
| C183 | B | 19 | 263 | 2F | 18 |
| C184 | B | 63 | 196 | 3E | 20 |
| C185 | B | 67 | 175 | 3F | 20 |
| C186 | B | 101 | 265 | 1F | 22 |
| C187 | B | 93 | 250 | 5E | 21 |
| C188 | B | 120 | 76 | 1E | 26 |
| C189 | B | 380 | 64 | 6C | 13 |
| C190 | B | 382 | 88 | 4B | 13 |
| C191 | B | 30 | 64 | 6C | 16 |
| C192 | B | 32 | 87 | 4B | 16 |
| C193 | B | 254 | 138 | 3B | 12 |
| C194 | B | 254 | 140 | 3B | 12 |
| C195 | B | 254 | 142 | 3B | 12 |
| C196 | B | 254 | 144 | 3A | 12 |
| C197 | B | 254 | 145 | 3A | 12 |
| C198 | B | 254 | 147 | 3A | 12 |
| C199 | B | 254 | 136 | 3B | 12 |
| C200 | B | 254 | 134 | 3B | 12 |
| C201 | B | 254 | 132 | 3C | 12 |
| C202 | B | 254 | 130 | 3C | 12 |
| C203 | B | 254 | 128 | 3C | 12 |
| C204 | B | 254 | 126 | 3C | 12 |
| C205 | B | 254 | 124 | 3D | 12 |
| C206 | B | 254 | 123 | 3D | 12 |
| C207 | B | 274 | 155 | 4B | 12 |
| C208 | B | 274 | 132 | 4C | 12 |
| C209 | B | 338 | 87 | 4D | 13 |
| C210 | B | 359 | 19 | 5A | 13 |
| C211 | B | 369 | 154 | 1A | 13 |
| C212 | B | 369 | 135 | 2C | 13 |
| C213 | B | 385 | 94 | 4B | 13 |
| C214 | B | 224 | 20 | 8C | 14 |
| C215 | B | 142 | 147 | 3D | 15 |
| C216 | B | 142 | 145 | 3D | 15 |
| C217 | B | 142 | 143 | 3D | 15 |
| C218 | B | 142 | 141 | 3C | 15 |
| C219 | B | 142 | 139 | 3C | 15 |
| C220 | B | 142 | 137 | 3C | 15 |

**ROHDE & SCHWARZ**

Benennung: *Designation:* ED IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT

Sprache: *Lang.:* de

Blatt: *Sh.:* 1 +

Aei: *C.I.:* 06.02

Typ: *Type:* AMIQ

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* **1110.2532.01 XY**

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| C221 | B | 142 | 135 | 3B | 15 |
| C222 | B | 142 | 133 | 3B | 15 |
| C223 | B | 142 | 122 | 3A | 15 |
| C224 | B | 142 | 124 | 3A | 15 |
| C225 | B | 142 | 126 | 3A | 15 |
| C226 | B | 142 | 128 | 3B | 15 |
| C227 | B | 142 | 130 | 3B | 15 |
| C228 | B | 142 | 131 | 3B | 15 |
| C229 | B | 123 | 131 | 4B | 15 |
| C230 | B | 123 | 155 | 4C | 15 |
| C231 | B | 28 | 147 | 1A | 16 |
| C232 | B | 34 | 18 | 5A | 16 |
| C233 | B | 19 | 135 | 2C | 16 |
| C234 | B | 34 | 94 | 4B | 16 |
| C235 | B | 61 | 87 | 4D | 16 |
| C236 | B | 172 | 20 | 8C | 17 |
| C237 | B | 208 | 32 | 8C | 14 |
| C238 | B | 184 | 29 | 8D | 17 |
| C239 | B | 236 | 20 | 6E | 24 |
| C240 | B | 213 | 29 | 3E | 14 |
| C241 | B | 347 | 75 | 4D | 13 |
| C242 | B | 70 | 75 | 4C | 16 |
| C243 | B | 270 | 143 | 2C | 12 |
| C244 | B | 126 | 144 | 2C | 15 |
| C245 | B | 52 | 223 | 3B | 19 |
| C246 | B | 289 | 124 | 3E | 12 |
| C247 | B | 282 | 129 | 2E | 12 |
| C248 | B | 305 | 138 | 6D | 12 |
| C249 | B | 295 | 138 | 6E | 12 |
| C250 | B | 260 | 49 | 1E | 14 |
| C251 | B | 267 | 54 | 1F | 14 |
| C252 | B | 105 | 130 | 3E | 15 |
| C253 | B | 112 | 124 | 2E | 15 |
| C254 | B | 89 | 137 | 6D | 15 |
| C255 | B | 112 | 137 | 6E | 15 |
| C256 | B | 134 | 47 | 1E | 17 |
| C257 | B | 127 | 52 | 1F | 17 |
| C258 | B | 97 | 278 | 2F | 22 |
| C259 | B | 168 | 113 | 4D | 27 |
| C260 | B | 163 | 113 | 5D | 27 |
| C261 | B | 324 | 127 | 2E | 13 |
| C262 | B | 324 | 117 | 2F | 13 |
| C263 | B | 72 | 127 | 1E | 16 |
| C264 | B | 72 | 117 | 1F | 16 |
| C265 | B | 294 | 162 | 5A | 12 |
| C266 | B | 294 | 149 | 5C | 12 |
| C267 | B | 363 | 118 | 3C | 13 |
| C268 | B | 102 | 159 | 5A | 15 |
| C269 | B | 102 | 147 | 5C | 15 |
| C270 | B | 12 | 118 | 3C | 16 |
| C271 | B | 77 | 290 | 7B | 22 |
| C272 | B | 92 | 239 | 7A | 21 |
| C273 | B | 330 | 102 | 3D | 13 |
| C274 | B | 53 | 102 | 3D | 16 |
| C275 | B | 91 | 243 | 7A | 21 |
| C276 | B | 328 | 94 | 4D | 13 |
| C277 | B | 341 | 58 | 6D | 13 |
| C278 | B | 370 | 97 | 4C | 13 |
| C279 | B | 305 | 24 | 4B | 14 |
| C280 | B | 300 | 22 | 4B | 14 |
| C281 | B | 19 | 97 | 4C | 16 |
| C282 | B | 64 | 57 | 6D | 16 |
| C283 | B | 51 | 93 | 4D | 16 |
| C284 | B | 16 | 241 | 1F | 18 |
| C285 | B | 10 | 241 | 1E | 18 |
| C286 | B | 9 | 182 | 1D | 20 |
| C287 | B | 9 | 188 | 1D | 20 |
| C288 | B | 9 | 190 | 1C | 20 |
| C289 | B | 16 | 195 | 2C | 20 |
| C290 | B | 66 | 192 | 3E | 20 |
| C291 | B | 57 | 173 | 3E | 20 |
| C292 | B | 366 | 135 | 2C | 13 |
| C293 | B | 370 | 100 | 3C | 13 |
| C294 | B | 20 | 99 | 3C | 16 |

| el. Kennz *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| C295 | B | 15 | 135 | 2C | 16 |
| C296 | B | 213 | 125 | 2D | 6 |
| C297 | B | 294 | 158 | 5B | 12 |
| C298 | B | 306 | 164 | 6A | 12 |
| C299 | B | 306 | 151 | 6B | 12 |
| C300 | B | 294 | 145 | 5C | 12 |
| C301 | B | 314 | 161 | 7B | 12 |
| C302 | B | 84 | 166 | 6A | 15 |
| C303 | B | 335 | 97 | 4E | 13 |
| C304 | B | 87 | 158 | 6B | 15 |
| C305 | B | 347 | 86 | 4D | 13 |
| C306 | B | 340 | 132 | 2E | 13 |
| C307 | B | 87 | 145 | 6C | 15 |
| C308 | B | 363 | 131 | 2C | 13 |
| C309 | B | 366 | 124 | 3C | 13 |
| C310 | B | 366 | 111 | 3C | 13 |
| C311 | B | 84 | 152 | 6C | 15 |
| C312 | B | 55 | 78 | 4E | 16 |
| C313 | B | 368 | 100 | 4C | 13 |
| C314 | B | 385 | 53 | 6B | 13 |
| C315 | B | 377 | 82 | 4B | 13 |
| C316 | B | 61 | 52 | 6E | 16 |
| C317 | B | 29 | 44 | 6C | 16 |
| C318 | B | 281 | 53 | 2D | 14 |
| C319 | B | 285 | 42 | 2D | 14 |
| C320 | B | 102 | 164 | 5B | 15 |
| C321 | B | 90 | 159 | 6A | 15 |
| C322 | B | 81 | 163 | 7B | 15 |
| C323 | B | 91 | 145 | 6B | 15 |
| C324 | B | 102 | 151 | 5C | 15 |
| C325 | B | 35 | 53 | 6B | 16 |
| C326 | B | 63 | 132 | 2E | 16 |
| C327 | B | 70 | 85 | 4D | 16 |
| C328 | B | 21 | 81 | 4C | 16 |
| C329 | B | 15 | 124 | 3C | 16 |
| C330 | B | 15 | 111 | 3C | 16 |
| C331 | B | 17 | 99 | 4C | 16 |
| C332 | B | 12 | 131 | 2C | 16 |
| C333 | B | 16 | 80 | 5C | 16 |
| C334 | B | 22 | 44 | 6B | 16 |
| C335 | B | 58 | 97 | 4E | 16 |
| C336 | B | 50 | 50 | 6D | 16 |
| C337 | B | 50 | 77 | 5D | 16 |
| C338 | B | 91 | 26 | 4B | 17 |
| C339 | B | 100 | 25 | 4B | 17 |
| C340 | B | 27 | 82 | 4B | 16 |
| C341 | B | 112 | 57 | 2D | 17 |
| C342 | B | 108 | 60 | 2D | 17 |
| C343 | B | 86 | 218 | 6A | 21 |
| C344 | B | 20 | 255 | 1F | 18 |
| C345 | B | 10 | 252 | 1E | 18 |
| C346 | B | 14 | 260 | 3F | 18 |
| C347 | B | 291 | 105 | 2E | 26 |
| C348 | B | 81 | 189 | 3B | 20 |
| C349 | B | 291 | 93 | 2E | 26 |
| C350 | B | 147 | 195 | 4E | 20 |
| C351 | B | 28 | 174 | 1F | 20 |
| C352 | B | 22 | 185 | 1F | 20 |
| C353 | B | 41 | 175 | 4E | 20 |
| C354 | B | 98 | 208 | 7E | 21 |
| C355 | B | 80 | 205 | 6E | 21 |
| C356 | B | 83 | 250 | 5E | 21 |
| C357 | B | 95 | 218 | 6B | 21 |
| C358 | B | 114 | 271 | 2F | 22 |
| C359 | B | 118 | 271 | 2F | 22 |
| C360 | B | 331 | 128 | 2D | 13 |
| C361 | B | 54 | 128 | 2D | 16 |
| C362 | B | 88 | 243 | 7A | 21 |
| C363 | B | 92 | 224 | 8A | 21 |
| C364 | B | 92 | 231 | 8A | 21 |
| C365 | B | 91 | 237 | 7A | 21 |
| C366 | B | 336 | 121 | 2E | 13 |
| C367 | B | 336 | 108 | 3E | 13 |
| C368 | B | 369 | 124 | 2C | 13 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| C369 | B | 369 | 111 | 3C | 13 |
| C370 | B | 19 | 111 | 3C | 16 |
| C371 | B | 19 | 124 | 2C | 16 |
| C372 | B | 60 | 121 | 2E | 16 |
| C373 | B | 60 | 108 | 3E | 16 |
| C374 | B | 72 | 269 | 6B | 18 |
| C375 | B | 74 | 190 | 3B | 20 |
| C376 | B | 332 | 68 | 6E | 13 |
| C377 | B | 55 | 68 | 6E | 16 |
| C378 | B | 66 | 266 | 6B | 18 |
| C379 | B | 69 | 279 | 7B | 18 |
| C380 | B | 177 | 150 | 2F | 6 |
| C381 | B | 194 | 273 | 3F | 28 |
| C382 | B | 184 | 134 | 2E | 6 |
| C383 | B | 274 | 162 | 4B | 12 |
| C384 | B | 274 | 126 | 4C | 12 |
| C385 | B | 274 | 147 | 1F | 12 |
| C386 | B | 274 | 159 | 2F | 12 |
| C387 | B | 274 | 151 | 2F | 12 |
| C388 | B | 274 | 138 | 2F | 12 |
| C389 | B | 274 | 141 | 3F | 12 |
| C390 | B | 310 | 163 | 6D | 12 |
| C391 | B | 302 | 156 | 6E | 12 |
| C392 | B | 310 | 150 | 6D | 12 |
| C393 | B | 302 | 142 | 6E | 12 |
| C394 | B | 318 | 145 | 7E | 12 |
| C395 | B | 325 | 153 | 7D | 12 |
| C396 | B | 274 | 124 | 4C | 12 |
| C397 | B | 274 | 135 | 4C | 12 |
| C398 | B | 245 | 156 | 1E | 12 |
| C399 | B | 325 | 81 | 4E | 13 |
| C400 | B | 325 | 86 | 4F | 13 |
| C401 | B | 177 | 193 | 2F | 10 |
| C402 | B | 188 | 247 | 6B | 10 |
| C403 | B | 373 | 51 | 2F | 13 |
| C404 | B | 373 | 47 | 2E | 13 |
| C405 | B | 364 | 89 | 3F | 13 |
| C406 | B | 364 | 84 | 3E | 13 |
| C407 | B | 346 | 19 | 4F | 13 |
| C408 | B | 346 | 23 | 4E | 13 |
| C409 | B | 329 | 56 | 3F | 13 |
| C410 | B | 329 | 53 | 3E | 13 |
| C411 | B | 284 | 52 | 2F | 14 |
| C412 | B | 284 | 48 | 2E | 14 |
| C413 | B | 298 | 27 | 2E | 14 |
| C414 | B | 298 | 31 | 2F | 14 |
| C415 | B | 272 | 57 | 2E | 14 |
| C416 | B | 276 | 57 | 2F | 14 |
| C417 | B | 297 | 74 | 3E | 26 |
| C418 | B | 297 | 87 | 3E | 26 |
| C419 | B | 194 | 15 | 4F | 14 |
| C420 | B | 71 | 215 | 4B | 19 |
| C421 | B | 85 | 181 | 4C | 20 |
| C422 | B | 84 | 161 | 6D | 15 |
| C423 | B | 84 | 147 | 6D | 15 |
| C424 | B | 72 | 149 | 7D | 15 |
| C425 | B | 123 | 125 | 4B | 15 |
| C426 | B | 123 | 162 | 4C | 15 |
| C427 | B | 123 | 160 | 4C | 15 |
| C428 | B | 78 | 155 | 7E | 15 |
| C429 | B | 94 | 153 | 6E | 15 |
| C430 | B | 94 | 167 | 6E | 15 |
| C431 | B | 123 | 146 | 3F | 15 |
| C432 | B | 123 | 149 | 2F | 15 |
| C433 | B | 123 | 128 | 2F | 15 |
| C434 | B | 123 | 136 | 2F | 15 |
| C435 | B | 123 | 139 | 2F | 15 |
| C436 | B | 155 | 159 | 1E | 15 |
| C437 | B | 123 | 152 | 4C | 15 |
| C438 | B | 22 | 47 | 4E | 16 |
| C439 | B | 50 | 23 | 4E | 16 |
| C440 | B | 52 | 52 | 2E | 16 |
| C441 | B | 48 | 81 | 2E | 16 |
| C442 | B | 184 | 251 | 6B | 10 |

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. Part | Seite Side | X | Y | Planq. Sqr | Bl. Pg |
|---|---|---|---|---|---|
| C443 | B | 14 | 84 | 3E | 16 |
| C444 | B | 50 | 19 | 4F | 16 |
| C445 | B | 22 | 50 | 4F | 16 |
| C446 | B | 14 | 89 | 3F | 16 |
| C447 | B | 190 | 169 | 8E | 8 |
| C448 | B | 48 | 85 | 3F | 16 |
| C449 | B | 52 | 56 | 2F | 16 |
| C450 | B | 109 | 54 | 2E | 17 |
| C451 | B | 111 | 53 | 3F | 17 |
| C452 | B | 100 | 102 | 3E | 26 |
| C453 | B | 90 | 31 | 2F | 17 |
| C454 | B | 109 | 50 | 2F | 17 |
| C455 | B | 111 | 49 | 3E | 17 |
| C456 | B | 100 | 90 | 4E | 26 |
| C457 | B | 89 | 26 | 2E | 17 |
| C458 | B | 289 | 192 | 4E | 18 |
| C459 | B | 281 | 192 | 4E | 18 |
| C460 | B | 202 | 81 | 5E | 18 |
| C461 | B | 147 | 250 | 4E | 18 |
| C462 | B | 147 | 262 | 3E | 18 |
| C463 | B | 51 | 263 | 6B | 18 |
| C464 | B | 40 | 274 | 3A | 18 |
| C465 | B | 17 | 237 | 4F | 19 |
| C466 | B | 53 | 217 | 5F | 19 |
| C467 | B | 35 | 205 | 1F | 19 |
| C468 | B | 37 | 214 | 1E | 19 |
| C469 | B | 30 | 229 | 3F | 19 |
| C470 | B | 66 | 231 | 1E | 19 |
| C471 | B | 44 | 218 | 2F | 19 |
| C472 | B | 48 | 219 | 2E | 19 |
| C473 | B | 42 | 255 | 3F | 19 |
| C474 | B | 30 | 255 | 4F | 19 |
| C475 | B | 50 | 242 | 4F | 19 |
| C476 | B | 60 | 225 | 1F | 19 |
| C477 | B | 34 | 241 | 3F | 19 |
| C478 | B | 57 | 217 | 3C | 19 |
| C479 | B | 69 | 188 | 3C | 20 |
| C480 | B | 119 | 186 | 5B | 20 |
| C481 | B | 127 | 189 | 5B | 20 |
| C482 | B | 125 | 263 | 1E | 21 |
| C483 | B | 147 | 192 | 5F | 20 |
| C484 | B | 137 | 175 | 4F | 20 |
| C485 | B | 41 | 177 | 4F | 20 |
| C486 | B | 129 | 204 | 3F | 21 |
| C487 | B | 112 | 208 | 4F | 21 |
| C488 | B | 118 | 224 | 4F | 21 |
| C489 | B | 107 | 223 | 4F | 21 |
| C490 | B | 108 | 238 | 5F | 21 |
| C491 | B | 80 | 215 | 6E | 21 |
| C492 | B | 93 | 209 | 6E | 21 |
| C493 | B | 93 | 215 | 7E | 21 |
| C494 | B | 80 | 209 | 6E | 21 |
| C495 | B | 213 | 240 | 3E | 10 |
| C496 | B | 207 | 259 | 2E | 10 |
| C497 | B | 205 | 240 | 3E | 10 |
| C498 | B | 214 | 259 | 3E | 10 |
| C499 | B | 88 | 273 | 8E | 22 |
| C500 | B | 169 | 55 | 3E | 23 |
| C501 | B | 238 | 50 | 2E | 23 |
| C502 | B | 238 | 42 | 3E | 23 |
| C503 | B | 202 | 55 | 3F | 24 |
| C504 | B | 219 | 54 | 5F | 24 |
| C505 | B | 208 | 53 | 5E | 24 |
| C506 | B | 158 | 44 | 4F | 24 |
| C507 | B | 158 | 53 | 4F | 24 |
| C508 | B | 183 | 62 | 3E | 25 |
| C509 | B | 182 | 74 | 3F | 25 |
| C510 | B | 213 | 74 | 2E | 25 |
| C511 | B | 215 | 62 | 3F | 25 |
| C512 | B | 235 | 74 | 3E | 25 |
| C513 | B | 161 | 62 | 2E | 25 |
| C514 | B | 126 | 101 | 4F | 26 |
| C515 | B | 121 | 92 | 5E | 26 |
| C516 | B | 85 | 112 | 4E | 26 |

| el. Kennz Part | Seite Side | X | Y | Planq. Sqr | Bl. Pg |
|---|---|---|---|---|---|
| C517 | B | 96 | 102 | 4F | 26 |
| C518 | B | 291 | 80 | 3E | 26 |
| C519 | B | 300 | 87 | 3F | 26 |
| C520 | B | 300 | 112 | 3F | 26 |
| C521 | B | 297 | 112 | 3E | 26 |
| C522 | B | 300 | 100 | 3F | 26 |
| C523 | B | 297 | 100 | 3E | 26 |
| C524 | B | 300 | 74 | 2F | 26 |
| C525 | B | 291 | 67 | 2E | 26 |
| C526 | B | 100 | 77 | 2E | 26 |
| C527 | B | 96 | 77 | 2F | 26 |
| C528 | B | 105 | 109 | 2E | 26 |
| C529 | B | 88 | 112 | 2F | 26 |
| C530 | B | 105 | 97 | 1E | 26 |
| C531 | B | 96 | 90 | 1F | 26 |
| C532 | B | 96 | 64 | 1F | 26 |
| C533 | B | 100 | 64 | 1E | 26 |
| C534 | B | 164 | 95 | 5E | 27 |
| C535 | B | 184 | 106 | 3A | 27 |
| C536 | B | 184 | 114 | 3B | 27 |
| C537 | B | 200 | 98 | 4F | 27 |
| C538 | B | 197 | 112 | 3F | 27 |
| C539 | B | 234 | 112 | 3F | 27 |
| C540 | B | 224 | 98 | 2F | 27 |
| C541 | B | 237 | 98 | 3F | 27 |
| C542 | B | 291 | 45 | 2C | 14 |
| C543 | B | 289 | 56 | 1D | 14 |
| C544 | B | 209 | 21 | 7D | 14 |
| C545 | B | 102 | 46 | 1D | 17 |
| C546 | B | 102 | 58 | 2D | 17 |
| C547 | B | 187 | 22 | 7D | 14 |
| C548 | B | 59 | 290 | 7A | 18 |
| C549 | B | 33 | 294 | 2B | 18 |
| C550 | B | 87 | 190 | 4C | 20 |
| C551 | B | 140 | 175 | 6D | 20 |
| C552 | B | 62 | 187 | 3B | 20 |
| C553 | B | 114 | 182 | 5C | 20 |
| C554 | B | 121 | 176 | 6C | 20 |
| C555 | B | 133 | 188 | 6D | 20 |
| C556 | B | 377 | 58 | 5C | 13 |
| C557 | B | 26 | 58 | 6C | 16 |
| C558 | B | 57 | 233 | 5B | 19 |
| C559 | B | 11 | 216 | 1C | 19 |
| C560 | B | 26 | 209 | 2C | 19 |
| C561 | B | 80 | 195 | 3A | 20 |
| C562 | B | 93 | 192 | 4A | 20 |
| C563 | B | 223 | 45 | 4C | 24 |
| C564 | B | 219 | 42 | 2C | 24 |
| C565 | B | 207 | 45 | 2B | 24 |
| C566 | B | 173 | 49 | 4B | 24 |
| C567 | B | 168 | 73 | 4D | 25 |
| C568 | B | 185 | 76 | 2D | 25 |
| C569 | B | 168 | 63 | 4D | 25 |
| C570 | B | 227 | 74 | 4B | 25 |
| C571 | B | 211 | 60 | 2B | 25 |
| C572 | B | 227 | 62 | 4A | 25 |
| C573 | B | 208 | 76 | 2B | 25 |
| C574 | B | 188 | 60 | 2D | 25 |
| C575 | B | 275 | 103 | 5E | 26 |
| C576 | B | 276 | 91 | 6E | 26 |
| C577 | B | 274 | 84 | 6E | 26 |
| C578 | B | 274 | 61 | 7E | 26 |
| C579 | B | 120 | 88 | 1E | 26 |
| C580 | B | 157 | 106 | 4E | 27 |
| C581 | B | 157 | 96 | 4F | 27 |
| C582 | B | 216 | 144 | 2E | 6 |
| C583 | B | 180 | 132 | 2E | 6 |
| C584 | B | 175 | 124 | 2E | 6 |
| C585 | B | 333 | 97 | 3E | 13 |
| C586 | B | 332 | 132 | 2E | 13 |
| C587 | B | 56 | 97 | 3E | 16 |
| C588 | B | 55 | 132 | 2E | 16 |
| C589 | B | 333 | 63 | 6E | 13 |
| C590 | B | 56 | 62 | 6E | 16 |

| el. Kennz. Part | Seite Side | X | Y | Planq. Sqr | Bl. Pg |
|---|---|---|---|---|---|
| C591 | B | 100 | 201 | 5B | 21 |
| C592 | B | 105 | 84 | 4E | 26 |
| C593 | B | 105 | 71 | 5E | 26 |
| C594 | B | 312 | 103 | 4E | 26 |
| C595 | B | 309 | 103 | 4F | 26 |
| C596 | B | 21 | 186 | 2D | 20 |
| C597 | B | 22 | 174 | 2D | 20 |
| C598 | B | 265 | 96 | 4E | 12 |
| C599 | B | 265 | 82 | 4F | 12 |
| C600 | B | 228 | 84 | 4D | 12 |
| C601 | B | 177 | 91 | 4E | 12 |
| C602 | B | 131 | 82 | 4F | 15 |
| C603 | B | 131 | 96 | 4E | 15 |
| C604 | B | 261 | 88 | 4E | 12 |
| C605 | B | 261 | 83 | 4F | 12 |
| C606 | B | 223 | 90 | 5D | 12 |
| C607 | B | 188 | 90 | 4E | 12 |
| C608 | B | 142 | 83 | 5F | 15 |
| C609 | B | 142 | 88 | 5E | 15 |
| C610 | B | 181 | 116 | 3C | 27 |
| C611 | B | 180 | 113 | 3C | 27 |
| C612 | B | 207 | 25 | 6C | 14 |
| C613 | B | 204 | 33 | 5F | 17 |
| C614 | B | 192 | 27 | 4E | 17 |
| C615 | B | 190 | 25 | 6D | 17 |
| C616 | B | 203 | 37 | 7D | 14 |
| C617 | B | 194 | 37 | 7D | 17 |
| C618 | B | 197 | 248 | 6A | 10 |
| C619 | B | 194 | 247 | 6B | 10 |
| C620 | B | 211 | 237 | 4E | 10 |
| C621 | B | 196 | 243 | 7B | 10 |
| C622 | B | 215 | 275 | 4F | 28 |
| C623 | B | 302 | 266 | 5F | 28 |
| C624 | B | 324 | 155 | 7C | 12 |
| C625 | B | 321 | 145 | 7C | 12 |
| C626 | B | 213 | 218 | 4E | 10 |
| C627 | B | 199 | 229 | 3E | 10 |
| C628 | B | 339 | 26 | 7A | 13 |
| C629 | B | 345 | 26 | 7A | 13 |
| C630 | B | 72 | 146 | 7C | 15 |
| C631 | B | 76 | 155 | 7C | 15 |
| C632 | B | 52 | 26 | 7A | 16 |
| C633 | B | 56 | 26 | 7A | 16 |
| C634 | B | 160 | 20 | 6E | 24 |
| C635 | B | 236 | 30 | 8E | 24 |
| C636 | B | 160 | 30 | 7E | 24 |
| C637 | B | 270 | 57 | 3D | 14 |
| C638 | B | 270 | 50 | 3D | 14 |
| C639 | B | 120 | 48 | 3D | 17 |
| C640 | B | 111 | 47 | 3D | 17 |
| C641 | B | 180 | 35 | 3F | 24 |
| C642 | B | 123 | 278 | 1F | 21 |
| C643 | B | 43 | 263 | 5B | 18 |
| C644 | B | 91 | 189 | 4A | 20 |
| C645 | B | 51 | 194 | 2E | 20 |
| C646 | B | 47 | 184 | 2F | 20 |
| C647 | B | 136 | 276 | 2F | 21 |
| C648 | B | 145 | 210 | 7E | 22 |
| C649 | B | 147 | 223 | 8E | 22 |
| C650 | B | 118 | 238 | 3F | 22 |
| C651 | B | 131 | 237 | 8E | 22 |
| C652 | B | 98 | 256 | 4F | 22 |
| C653 | B | 126 | 256 | 5F | 22 |
| C654 | B | 112 | 256 | 5E | 22 |
| C655 | B | 98 | 246 | 5E | 22 |
| C656 | B | 126 | 246 | 6E | 22 |
| C657 | B | 112 | 246 | 6E | 22 |
| C658 | B | 143 | 215 | 4F | 22 |
| C659 | B | 143 | 227 | 4F | 22 |
| C660 | B | 131 | 227 | 7E | 22 |
| C661 | B | 131 | 215 | 7E | 22 |
| C662 | B | 133 | 175 | 6C | 20 |
| C663 | B | 143 | 177 | 6C | 20 |
| C664 | B | 183 | 143 | 2F | 6 |

ROHDE & SCHWARZ

Benennung: ED IQ ANALOG/DIGITAL UNIT
*Designation:* IQ ANALOG/DIGITAL UNIT

Sprache: *Lang.:* de

Blatt: *Sh.:* 3 +

Aer: *C.I.:* 06.02

Typ: *Type:* AMIQ

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* 1110.2532.01 XY

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| C665 | B | 226 | 276 | 5F | 10 |
| C666 | B | 143 | 238 | 3F | 22 |
| C667 | B | 244 | 120 | 1D | 12 |
| C668 | B | 152 | 152 | 1D | 15 |
| C669 | B | 361 | 267 | 1A | 7 |
| C670 | B | 302 | 262 | 3C | 7 |
| C671 | B | 218 | 238 | 1A | 10 |
| C672 | B | 185 | 221 | 2E | 8 |
| C673 | B | 180 | 168 | 7E | 8 |
| C674 | B | 241 | 168 | 7E | 9 |
| C675 | B | 232 | 168 | 8E | 9 |
| C676 | B | 322 | 158 | 6C | 12 |
| C677 | B | 74 | 143 | 6C | 15 |
| C678 | B | 311 | 34 | 4C | 14 |
| C679 | B | 104 | 33 | 4C | 17 |
| C680 | B | 387 | 53 | 6B | 13 |
| C681 | B | 36 | 53 | 6B | 16 |
| D1 | B | 328 | 200 | 5F | 7 |
| D1 | B | 328 | 200 | 6D | 7 |
| D2 | B | 263 | 223 | 3F | 7 |
| D2 | B | 263 | 223 | 7A | 7 |
| D3 | B | 276 | 277 | 6A | 28 |
| D3 | B | 276 | 277 | 6A | 28 |
| D3 | B | 276 | 277 | 6A | 28 |
| D3 | B | 276 | 277 | 6A | 28 |
| D3 | B | 276 | 277 | 1F | 7 |
| D3 | B | 276 | 277 | 2A | 7 |
| D3 | B | 276 | 277 | 3D | 7 |
| D4 | B | 266 | 248 | 1F | 28 |
| D4 | B | 266 | 248 | 4A | 28 |
| D5 | B | 345 | 223 | 2B | 28 |
| D5 | B | 345 | 223 | 4F | 28 |
| D6 | B | 326 | 248 | 1D | 11 |
| D6 | B | 326 | 248 | 2A | 11 |
| D7 | B | 314 | 232 | 2F | 7 |
| D7 | B | 314 | 232 | 4A | 7 |
| D8 | B | 345 | 202 | 1F | 7 |
| D8 | B | 345 | 202 | 3B | 7 |
| D9 | B | 206 | 273 | 4F | 28 |
| D9 | B | 206 | 273 | 6B | 28 |
| D10 | B | 180 | 218 | 1F | 8 |
| D10 | B | 180 | 218 | 2C | 8 |
| D11 | B | 179 | 200 | 2A | 8 |
| D11 | B | 179 | 200 | 2B | 8 |
| D11 | B | 179 | 200 | 2F | 8 |
| D12 | B | 198 | 200 | 3A | 8 |
| D12 | B | 198 | 200 | 3B | 8 |
| D12 | B | 198 | 200 | 3F | 8 |
| D13 | B | 214 | 200 | 4A | 8 |
| D13 | B | 214 | 200 | 4B | 8 |
| D13 | B | 214 | 200 | 4B | 8 |
| D13 | B | 214 | 200 | 4C | 8 |
| D13 | B | 214 | 200 | 4F | 8 |
| D14 | B | 207 | 178 | 4F | 8 |
| D14 | B | 207 | 178 | 6C | 8 |
| D14 | B | 207 | 178 | 6E | 8 |
| D15 | B | 169 | 269 | 3F | 28 |
| D15 | B | 169 | 269 | 7C | 28 |
| D15 | B | 169 | 269 | 7C | 28 |
| D15 | B | 169 | 269 | 7C | 28 |
| D15 | B | 169 | 269 | 7D | 28 |
| D16 | B | 135 | 227 | 3F | 22 |
| D16 | B | 135 | 227 | 4A | 22 |
| D16 | B | 135 | 227 | 4B | 22 |
| D17 | B | 201 | 223 | 2C | 10 |
| D17 | B | 201 | 223 | 2C | 10 |
| D17 | B | 201 | 223 | 2D | 10 |
| D17 | B | 201 | 223 | 2D | 10 |
| D17 | B | 201 | 223 | 3F | 10 |
| D18 | B | 151 | 265 | 2D | 18 |
| D18 | B | 151 | 265 | 2D | 18 |
| D18 | B | 151 | 265 | 2D | 18 |
| D18 | B | 151 | 265 | 2D | 18 |
| D18 | B | 151 | 265 | 2E | 18 |

| el. Kennz *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| D18 | B | 151 | 265 | 3E | 18 |
| D18 | B | 151 | 265 | 3F | 18 |
| D19 | B | 151 | 252 | 2C | 18 |
| D19 | B | 151 | 252 | 2C | 18 |
| D19 | B | 151 | 252 | 2C | 18 |
| D19 | B | 151 | 252 | 2C | 18 |
| D19 | B | 151 | 252 | 2D | 18 |
| D19 | B | 151 | 252 | 2D | 18 |
| D19 | B | 151 | 252 | 3F | 18 |
| D20 | B | 233 | 218 | 1F | 9 |
| D20 | B | 233 | 218 | 2C | 9 |
| D21 | B | 232 | 200 | 2A | 9 |
| D21 | B | 232 | 200 | 2B | 9 |
| D21 | B | 232 | 200 | 2F | 9 |
| D22 | B | 251 | 200 | 3A | 9 |
| D22 | B | 251 | 200 | 3B | 9 |
| D22 | B | 251 | 200 | 3F | 9 |
| D23 | B | 268 | 200 | 3F | 9 |
| D23 | B | 268 | 200 | 4A | 9 |
| D23 | B | 268 | 200 | 4B | 9 |
| D23 | B | 268 | 200 | 4B | 9 |
| D23 | B | 268 | 200 | 4C | 9 |
| D24 | B | 260 | 178 | 4F | 9 |
| D24 | B | 260 | 178 | 6C | 9 |
| D24 | B | 260 | 178 | 6E | 9 |
| D25 | B | 183 | 269 | 3F | 28 |
| D25 | B | 183 | 269 | 7D | 28 |
| D25 | B | 183 | 269 | 7D | 28 |
| D25 | B | 183 | 269 | 7E | 28 |
| D25 | B | 183 | 269 | 7E | 28 |
| D26 | B | 231 | 181 | 4F | 9 |
| D26 | B | 231 | 181 | 7C | 9 |
| D27 | B | 286 | 190 | 4F | 18 |
| D27 | B | 286 | 190 | 5C | 18 |
| D27 | B | 286 | 190 | 5C | 18 |
| D27 | B | 286 | 190 | 5C | 18 |
| D27 | B | 286 | 190 | 5C | 18 |
| D27 | B | 286 | 190 | 5D | 18 |
| D27 | B | 286 | 190 | 5D | 18 |
| D28 | B | 277 | 190 | 4F | 18 |
| D28 | B | 277 | 190 | 5D | 18 |
| D28 | B | 277 | 190 | 5D | 18 |
| D28 | B | 277 | 190 | 5D | 18 |
| D28 | B | 277 | 190 | 5D | 18 |
| D28 | B | 277 | 190 | 5E | 18 |
| D28 | B | 277 | 190 | 5E | 18 |
| D29 | B | 215 | 101 | 1D | 27 |
| D29 | B | 215 | 101 | 1E | 27 |
| D29 | B | 215 | 101 | 1E | 27 |
| D29 | B | 215 | 101 | 1E | 27 |
| D29 | B | 215 | 101 | 1F | 27 |
| D29 | B | 215 | 101 | 2F | 27 |
| D29 | B | 215 | 101 | 3A | 27 |
| D30 | B | 165 | 125 | 1F | 15 |
| D30 | B | 165 | 125 | 2A | 15 |
| D31 | B | 165 | 142 | 1E | 15 |
| D31 | B | 165 | 142 | 2C | 15 |
| D32 | B | 231 | 148 | 1F | 12 |
| D32 | B | 231 | 148 | 2A | 12 |
| D33 | B | 231 | 131 | 1E | 12 |
| D33 | B | 231 | 131 | 2C | 12 |
| D34 | B | 202 | 17 | 4E | 14 |
| D34 | B | 202 | 17 | 4E | 14 |
| D34 | B | 202 | 17 | 4F | 14 |
| D34 | B | 202 | 17 | 4F | 14 |
| D34 | B | 202 | 17 | 7D | 14 |
| D35 | B | 27 | 227 | 2A | 19 |
| D35 | B | 27 | 227 | 2B | 19 |
| D35 | B | 27 | 227 | 3F | 19 |
| D36 | B | 36 | 252 | 3F | 19 |
| D36 | B | 36 | 252 | 7B | 19 |
| D36 | B | 36 | 252 | 7C | 19 |
| D37 | B | 43 | 190 | 2A | 20 |
| D37 | B | 43 | 190 | 2B | 20 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| D37 | B | 43 | 190 | 4F | 20 |
| D38 | B | 121 | 204 | 2A | 21 |
| D38 | B | 121 | 204 | 2B | 21 |
| D38 | B | 121 | 204 | 3F | 21 |
| D39 | B | 103 | 220 | 4A | 21 |
| D39 | B | 103 | 220 | 4F | 21 |
| D40 | B | 69 | 224 | 2E | 19 |
| D40 | B | 69 | 224 | 4B | 19 |
| D41 | B | 217 | 254 | 2A | 10 |
| D41 | B | 217 | 254 | 3B | 10 |
| D41 | B | 217 | 254 | 3C | 10 |
| D41 | B | 217 | 254 | 3F | 10 |
| D41 | B | 217 | 254 | 7A | 10 |
| D42 | B | 12 | 234 | 3D | 19 |
| D42 | B | 12 | 234 | 4F | 19 |
| D43 | B | 103 | 236 | 5C | 21 |
| D43 | B | 103 | 236 | 5F | 21 |
| D44 | B | 180 | 55 | 2D | 23 |
| D44 | B | 180 | 55 | 3F | 23 |
| D45 | B | 194 | 55 | 2D | 24 |
| D45 | B | 194 | 55 | 3F | 24 |
| D46 | B | 228 | 101 | 2C | 27 |
| D46 | B | 228 | 101 | 2F | 27 |
| D47 | B | 135 | 216 | 4A | 22 |
| D47 | B | 135 | 216 | 4F | 22 |
| D47 | B | 135 | 216 | 8D | 22 |
| D48 | B | 239 | 101 | 2B | 27 |
| D48 | B | 239 | 101 | 3F | 27 |
| D49 | B | 202 | 101 | 2A | 27 |
| D49 | B | 202 | 101 | 3F | 27 |
| D50 | B | 260 | 140 | 3C | 12 |
| D50 | B | 260 | 140 | 3F | 12 |
| D51 | B | 137 | 146 | 3C | 15 |
| D51 | B | 137 | 146 | 3F | 15 |
| D52 | B | 260 | 162 | 2F | 12 |
| D52 | B | 260 | 162 | 3B | 12 |
| D53 | B | 137 | 124 | 2F | 15 |
| D53 | B | 137 | 124 | 3B | 15 |
| D54 | B | 206 | 83 | 5F | 18 |
| D54 | B | 206 | 83 | 8D | 18 |
| D55 | B | 27 | 252 | 3F | 19 |
| D55 | B | 27 | 252 | 7B | 19 |
| D55 | B | 27 | 252 | 7B | 19 |
| D55 | B | 27 | 252 | 7C | 19 |
| D55 | B | 27 | 252 | 7C | 19 |
| D56 | B | 291 | 53 | 2C | 14 |
| D56 | B | 291 | 53 | 2E | 14 |
| D57 | B | 102 | 49 | 2C | 17 |
| D57 | B | 102 | 49 | 2E | 17 |
| D58 | B | 172 | 98 | 4A | 27 |
| D58 | B | 172 | 98 | 4E | 27 |
| D59 | B | 59 | 264 | 4B | 18 |
| D59 | B | 59 | 264 | 5A | 18 |
| D59 | B | 59 | 264 | 5B | 18 |
| D59 | B | 59 | 264 | 5B | 18 |
| D59 | B | 59 | 264 | 6B | 18 |
| D60 | B | 144 | 197 | 4F | 20 |
| D60 | B | 144 | 197 | 8C | 20 |
| D60 | B | 144 | 197 | 8D | 20 |
| D60 | B | 144 | 197 | 8D | 20 |
| D61 | B | 84 | 271 | 7B | 22 |
| D61 | B | 84 | 271 | 7B | 22 |
| D61 | B | 84 | 271 | 7C | 22 |
| D61 | B | 84 | 271 | 7C | 22 |
| D61 | B | 84 | 271 | 8E | 22 |
| D62 | B | 107 | 205 | 3A | 21 |
| D62 | B | 107 | 205 | 3B | 21 |
| D62 | B | 107 | 205 | 3B | 21 |
| D62 | B | 107 | 205 | 3B | 21 |
| D62 | B | 107 | 205 | 4F | 21 |
| D63 | B | 103 | 271 | 1F | 22 |
| D64 | B | 235 | 57 | 2D | 23 |
| D64 | B | 235 | 57 | 2F | 23 |

ROHDE & SCHWARZ

Benennung: *Designation:* ED IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT

Sprache: *Lang.:* de

Blatt: *Sh.:* 4 +

Aei: *C.I.:* 06.02

Typ: *Type:* AMIQ

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* **1110.2532.01 XY**

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. / Part | Seite / Side | X | Y | Planq. / Sqr | Bl. / Pg |
|---|---|---|---|---|---|
| D64 | B | 235 | 57 | 7C | 23 |
| D64 | B | 235 | 57 | 4C | 24 |
| D64 | B | 235 | 57 | 6C | 24 |
| D65 | B | 161 | 38 | 2B | 23 |
| D65 | B | 161 | 38 | 7B | 23 |
| D65 | B | 161 | 38 | 4B | 24 |
| D65 | B | 161 | 38 | 4F | 24 |
| D65 | B | 161 | 38 | 6B | 24 |
| D66 | B | 165 | 65 | 2E | 25 |
| D66 | B | 165 | 65 | 4D | 25 |
| D66 | B | 165 | 65 | 4D | 25 |
| D66 | B | 165 | 65 | 5D | 25 |
| D66 | B | 165 | 65 | 5E | 25 |
| D67 | B | 231 | 71 | 2E | 25 |
| D67 | B | 231 | 71 | 4A | 25 |
| D67 | B | 231 | 71 | 4B | 25 |
| D67 | B | 231 | 71 | 5B | 25 |
| D67 | B | 231 | 71 | 5B | 25 |
| D68 | B | 27 | 241 | 2F | 19 |
| D68 | B | 27 | 241 | 7D | 19 |
| D69 | B | 113 | 222 | 2C | 21 |
| D69 | B | 113 | 222 | 4F | 21 |
| D70 | B | 53 | 244 | 2D | 19 |
| D70 | B | 53 | 244 | 4F | 19 |
| D70 | B | 53 | 244 | 6A | 19 |
| D70 | B | 53 | 244 | 6B | 19 |
| D70 | B | 53 | 244 | 6B | 19 |
| D70 | B | 53 | 244 | 6B | 19 |
| D70 | B | 53 | 244 | 6C | 19 |
| D71 | B | 235 | 46 | 2C | 23 |
| D71 | B | 235 | 46 | 3F | 23 |
| D71 | B | 235 | 46 | 5C | 24 |
| D72 | B | 161 | 49 | 2B | 23 |
| D72 | B | 161 | 49 | 4F | 24 |
| D72 | B | 161 | 49 | 5B | 24 |
| D73 | B | 82 | 209 | 5A | 21 |
| D73 | B | 82 | 209 | 6E | 21 |
| D74 | B | 50 | 205 | 2C | 19 |
| D74 | B | 50 | 205 | 5F | 19 |
| D75 | B | 108 | 64 | 4E | 26 |
| D75 | B | 108 | 64 | 5D | 26 |
| D76 | B | 108 | 77 | 4E | 26 |
| D76 | B | 108 | 77 | 5C | 26 |
| D77 | B | 108 | 90 | 4E | 26 |
| D77 | B | 108 | 90 | 5B | 26 |
| D78 | B | 108 | 102 | 3E | 26 |
| D78 | B | 108 | 102 | 5A | 26 |
| D79 | B | 288 | 87 | 2C | 26 |
| D79 | B | 288 | 87 | 3E | 26 |
| D80 | B | 288 | 74 | 2D | 26 |
| D80 | B | 288 | 74 | 3E | 26 |
| D81 | B | 288 | 99 | 2B | 26 |
| D81 | B | 288 | 99 | 2E | 26 |
| D82 | B | 288 | 112 | 2A | 26 |
| D82 | B | 288 | 112 | 2E | 26 |
| D83 | B | 234 | 88 | 4D | 12 |
| D84 | B | 169 | 187 | 2F | 10 |
| D85 | B | 301 | 274 | 4F | 28 |
| D85 | B | 301 | 274 | 7B | 28 |
| D85 | B | 301 | 274 | 7B | 28 |
| D85 | B | 301 | 274 | 7B | 28 |
| D86 | B | 189 | 35 | 3F | 24 |
| D86 | B | 189 | 35 | 5C | 24 |
| D86 | B | 189 | 35 | 5D | 24 |
| D86 | B | 189 | 35 | 5D | 24 |
| D86 | B | 189 | 35 | 5D | 24 |
| D87 | B | 101 | 253 | 2E | 22 |
| D87 | B | 101 | 253 | 4F | 22 |
| D88 | B | 129 | 253 | 2C | 22 |
| D88 | B | 129 | 253 | 5F | 22 |
| D89 | B | 115 | 253 | 2D | 22 |
| D89 | B | 115 | 253 | 5E | 22 |
| D90 | B | 151 | 212 | 5A | 22 |
| D90 | B | 151 | 212 | 5A | 22 |
| D90 | B | 151 | 212 | 5B | 22 |
| D90 | B | 151 | 212 | 7E | 22 |
| D91 | B | 151 | 225 | 5B | 22 |
| D91 | B | 151 | 225 | 5B | 22 |
| D91 | B | 151 | 225 | 5C | 22 |
| D91 | B | 151 | 225 | 5C | 22 |
| D91 | B | 151 | 225 | 7E | 22 |
| D92 | B | 123 | 237 | 2A | 22 |
| D92 | B | 123 | 237 | 5C | 22 |
| D92 | B | 123 | 237 | 6C | 22 |
| D92 | B | 123 | 237 | 6C | 22 |
| D92 | B | 123 | 237 | 8E | 22 |
| D93 | B | 113 | 236 | 2B | 22 |
| D93 | B | 113 | 236 | 3F | 22 |
| D94 | B | 48 | 265 | 4A | 18 |
| D94 | B | 48 | 265 | 4A | 18 |
| D94 | B | 48 | 265 | 5B | 18 |
| D94 | B | 48 | 265 | 6B | 18 |
| D94 | B | 48 | 265 | 7B | 18 |
| D94 | B | 48 | 265 | 7B | 18 |
| D94 | B | 48 | 265 | 8B | 18 |
| D95 | B | 123 | 216 | 6C | 21 |
| D95 | B | 123 | 216 | 3A | 22 |
| D95 | B | 123 | 216 | 3A | 22 |
| D95 | B | 123 | 216 | 3B | 22 |
| D95 | B | 123 | 216 | 6E | 22 |
| D96 | B | 123 | 227 | 3B | 22 |
| D96 | B | 123 | 227 | 3D | 22 |
| D96 | B | 123 | 227 | 3E | 22 |
| D96 | B | 123 | 227 | 7D | 22 |
| D96 | B | 123 | 227 | 7E | 22 |
| D97 | B | 101 | 243 | 4E | 22 |
| D97 | B | 101 | 243 | 5E | 22 |
| D98 | B | 129 | 243 | 4B | 22 |
| D98 | B | 129 | 243 | 6E | 22 |
| D99 | B | 115 | 243 | 4D | 22 |
| D99 | B | 115 | 243 | 6E | 22 |
| D100 | B | 132 | 263 | 1F | 21 |
| D100 | B | 132 | 263 | 2D | 21 |
| D101 | B | 135 | 237 | 2A | 22 |
| D101 | B | 135 | 237 | 3F | 22 |
| D101 | B | 135 | 237 | 4C | 22 |
| D101 | B | 135 | 237 | 4D | 22 |
| D101 | B | 135 | 237 | 4E | 22 |
| D101 | B | 135 | 237 | 6D | 22 |
| D101 | B | 135 | 237 | 6D | 22 |
| D102 | B | 229 | 269 | 2B | 10 |
| D102 | B | 229 | 269 | 3B | 10 |
| D102 | B | 229 | 269 | 4F | 10 |
| D102 | B | 229 | 269 | 5E | 10 |
| D102 | B | 229 | 269 | 5E | 10 |
| D103 | B | 179 | 174 | 7B | 8 |
| D103 | B | 179 | 174 | 7E | 8 |
| D104 | B | 188 | 174 | 7A | 8 |
| D104 | B | 188 | 174 | 8E | 8 |
| D105 | B | 240 | 174 | 7A | 9 |
| D105 | B | 240 | 174 | 7E | 9 |
| D106 | B | 230 | 174 | 7B | 9 |
| D106 | B | 230 | 174 | 8E | 9 |
| G2 | B | 312 | 258 | 3C | 7 |
| G3 | B | 245 | 271 | 2C | 28 |
| G4 | B | 312 | 270 | 3C | 11 |
| G7 | B | 11 | 211 | 1C | 19 |
| G8 | B | 97 | 192 | 4C | 20 |
| H1 | B | 405 | 15 | 2E | 29 |
| H2 | B | 405 | 56 | 2E | 29 |
| H3 | B | 405 | 36 | 2D | 29 |
| K1 | B | 41 | 163 | 2B | 16 |
| K1 | B | 41 | 163 | 5C | 25 |
| K2 | B | 60 | 163 | 2B | 16 |
| K2 | B | 60 | 163 | 2A | 23 |
| K3 | B | 47 | 163 | 1C | 16 |
| K3 | B | 47 | 163 | 3A | 23 |
| K4 | B | 53 | 163 | 1E | 16 |
| K4 | B | 53 | 163 | 5A | 23 |
| K5 | B | 64 | 16 | 6A | 16 |
| K5 | B | 64 | 16 | 7C | 25 |
| K6 | B | 64 | 22 | 7B | 16 |
| K6 | B | 64 | 22 | 8C | 25 |
| K7 | B | 86 | 64 | 7B | 16 |
| K7 | B | 86 | 64 | 3A | 23 |
| K8 | B | 64 | 29 | 7C | 16 |
| K8 | B | 64 | 29 | 4A | 23 |
| K9 | B | 64 | 35 | 7D | 16 |
| K9 | B | 64 | 35 | 5A | 23 |
| K10 | B | 94 | 53 | 3B | 17 |
| K10 | B | 94 | 53 | 7A | 23 |
| K11 | B | 106 | 37 | 3B | 17 |
| K11 | B | 106 | 37 | 7A | 23 |
| K12 | B | 110 | 30 | 5B | 17 |
| K12 | B | 110 | 30 | 5A | 24 |
| K13 | B | 117 | 30 | 5B | 17 |
| K13 | B | 117 | 30 | 6A | 24 |
| K14 | B | 129 | 37 | 6B | 17 |
| K14 | B | 129 | 37 | 7A | 24 |
| K15 | B | 135 | 37 | 7B | 17 |
| K15 | B | 135 | 37 | 8A | 24 |
| K16 | B | 155 | 26 | 7A | 17 |
| K16 | B | 155 | 26 | 7E | 24 |
| K17 | B | 155 | 15 | 7B | 17 |
| K17 | B | 155 | 15 | 5E | 24 |
| K21 | B | 356 | 163 | 2B | 13 |
| K21 | B | 356 | 163 | 5A | 25 |
| K22 | B | 337 | 163 | 2B | 13 |
| K22 | B | 337 | 163 | 2C | 23 |
| K23 | B | 349 | 163 | 1C | 13 |
| K23 | B | 349 | 163 | 3C | 23 |
| K24 | B | 343 | 163 | 1E | 13 |
| K24 | B | 343 | 163 | 5C | 23 |
| K25 | B | 332 | 16 | 6A | 13 |
| K25 | B | 332 | 16 | 7A | 25 |
| K26 | B | 332 | 22 | 7B | 13 |
| K26 | B | 332 | 22 | 8A | 25 |
| K27 | B | 310 | 64 | 7B | 13 |
| K27 | B | 310 | 64 | 3C | 23 |
| K28 | B | 332 | 29 | 7C | 13 |
| K28 | B | 332 | 29 | 4C | 23 |
| K29 | B | 332 | 35 | 7D | 13 |
| K29 | B | 332 | 35 | 5C | 23 |
| K30 | B | 302 | 53 | 3B | 14 |
| K30 | B | 302 | 53 | 7C | 23 |
| K31 | B | 290 | 37 | 3B | 14 |
| K31 | B | 290 | 37 | 7C | 23 |
| K32 | B | 286 | 30 | 5B | 14 |
| K32 | B | 286 | 30 | 5B | 24 |
| K33 | B | 279 | 30 | 5B | 14 |
| K33 | B | 279 | 30 | 6B | 24 |
| K34 | B | 267 | 37 | 6B | 14 |
| K34 | B | 267 | 37 | 7B | 24 |
| K35 | B | 261 | 37 | 8B | 24 |
| K36 | B | 241 | 26 | 7A | 14 |
| K36 | B | 241 | 26 | 8E | 24 |
| K37 | B | 241 | 15 | 7B | 14 |
| K37 | B | 241 | 15 | 6E | 24 |
| L1 | B | 368 | 133 | 2C | 13 |
| L2 | B | 368 | 120 | 3C | 13 |
| L3 | B | 368 | 107 | 3C | 13 |
| L4 | B | 368 | 72 | 5C | 13 |
| L5 | B | 17 | 72 | 5C | 16 |
| L6 | B | 17 | 133 | 2C | 16 |
| L7 | B | 17 | 107 | 3C | 16 |
| L8 | B | 17 | 120 | 3C | 16 |
| L9 | B | 329 | 63 | 6E | 13 |
| L10 | B | 52 | 63 | 6E | 16 |
| L11 | B | 335 | 130 | 2E | 13 |

ROHDE & SCHWARZ

Benennung: ED IQ ANALOG/DIGITAL UNIT
Designation: IQ ANALOG/DIGITAL UNIT

Sprache: Lang.: de

Blatt: Sh.: 5 +

Aei: C.I.: 06.02

Typ: Type: AMIQ

Datum: Date: 99–06–10

Abteilung: Dpt: 1GPK

Name: Name: SR

Sachnr.: Part No.: 1110.2532.01 XY

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| L12 | B | 335 | 117 | 3E | 13 |
| L13 | B | 58 | 130 | 2E | 16 |
| L14 | B | 58 | 117 | 3E | 16 |
| L15 | B | 280 | 144 | 2E | 12 |
| L16 | B | 280 | 163 | 2E | 12 |
| L17 | B | 280 | 148 | 2E | 12 |
| L18 | B | 280 | 137 | 3E | 12 |
| L19 | B | 280 | 140 | 3E | 12 |
| L20 | B | 309 | 134 | 6D | 12 |
| L21 | B | 301 | 134 | 6E | 12 |
| L22 | B | 245 | 153 | 1E | 12 |
| L23 | B | 322 | 82 | 4E | 13 |
| L24 | B | 322 | 90 | 4F | 13 |
| L25 | B | 195 | 225 | 4E | 10 |
| L26 | B | 367 | 51 | 2F | 13 |
| L27 | B | 370 | 48 | 2E | 13 |
| L28 | B | 361 | 93 | 2F | 13 |
| L29 | B | 361 | 86 | 3E | 13 |
| L30 | B | 352 | 18 | 4F | 13 |
| L31 | B | 349 | 22 | 4E | 13 |
| L32 | B | 323 | 57 | 3F | 13 |
| L33 | B | 326 | 53 | 3E | 13 |
| L34 | B | 220 | 276 | 4E | 10 |
| L35 | B | 254 | 49 | 1E | 14 |
| L36 | B | 254 | 54 | 1F | 14 |
| L37 | B | 116 | 138 | 2E | 15 |
| L38 | B | 116 | 124 | 2E | 15 |
| L39 | B | 116 | 150 | 3E | 15 |
| L40 | B | 116 | 146 | 3E | 15 |
| L41 | B | 85 | 135 | 6D | 15 |
| L42 | B | 116 | 142 | 2E | 15 |
| L43 | B | 102 | 137 | 6E | 15 |
| L44 | B | 152 | 159 | 1E | 15 |
| L45 | B | 47 | 22 | 4E | 16 |
| L46 | B | 44 | 18 | 4F | 16 |
| L47 | B | 46 | 53 | 2E | 16 |
| L48 | B | 16 | 51 | 3F | 16 |
| L49 | B | 19 | 47 | 4E | 16 |
| L50 | B | 10 | 93 | 3F | 16 |
| L51 | B | 10 | 86 | 3E | 16 |
| L52 | B | 373 | 29 | 7C | 13 |
| L53 | B | 22 | 28 | 7C | 16 |
| L54 | B | 45 | 90 | 2F | 16 |
| L55 | B | 46 | 57 | 2F | 16 |
| L56 | B | 45 | 82 | 2E | 16 |
| L57 | B | 141 | 47 | 1E | 17 |
| L58 | B | 141 | 52 | 1F | 17 |
| L59 | B | 95 | 212 | 7E | 21 |
| L60 | B | 83 | 201 | 6E | 21 |
| L61 | B | 153 | 110 | 4E | 27 |
| L62 | B | 153 | 103 | 4F | 27 |
| L63 | B | 18 | 245 | 1F | 18 |
| L64 | B | 11 | 245 | 1E | 18 |
| L65 | B | 70 | 263 | 6A | 18 |
| L66 | B | 70 | 272 | 7A | 18 |
| L67 | B | 12 | 181 | 1D | 20 |
| L68 | B | 12 | 186 | 1D | 20 |
| L69 | B | 12 | 191 | 1C | 20 |
| L70 | B | 121 | 183 | 6C | 20 |
| L71 | B | 147 | 187 | 7C | 20 |
| L72 | B | 35 | 175 | 4E | 20 |
| L73 | B | 151 | 192 | 4E | 20 |
| L74 | B | 95 | 244 | 7A | 21 |
| L75 | B | 95 | 237 | 7A | 21 |
| L76 | B | 95 | 229 | 8A | 21 |
| L77 | B | 335 | 104 | 3E | 13 |
| L78 | B | 58 | 104 | 3E | 16 |
| L79 | B | 362 | 62 | 5C | 13 |
| L80 | B | 11 | 61 | 5C | 16 |
| L81 | B | 190 | 151 | 1E | 6 |
| L82 | B | 194 | 267 | 3E | 28 |
| L83 | B | 208 | 130 | 1D | 6 |
| L84 | B | 190 | 123 | 1D | 6 |
| L85 | B | 208 | 137 | 1E | 6 |

| el. Kennz *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| L86 | B | 190 | 141 | 1E | 6 |
| L87 | B | 303 | 129 | 2E | 12 |
| L88 | B | 303 | 124 | 3E | 12 |
| L89 | B | 92 | 130 | 3E | 15 |
| L90 | B | 92 | 124 | 2E | 15 |
| L91 | B | 51 | 237 | 5A | 19 |
| L93 | B | 309 | 124 | 1F | 13 |
| L94 | B | 309 | 129 | 1E | 13 |
| L95 | B | 87 | 124 | 1F | 16 |
| L96 | B | 87 | 130 | 1E | 16 |
| N1 | B | 335 | 178 | 2E | 6 |
| N2 | B | 135 | 178 | 3F | 20 |
| N2 | B | 135 | 178 | 6D | 20 |
| N3 | B | 114 | 177 | 5C | 20 |
| N4 | B | 276 | 70 | 6E | 26 |
| N5 | B | 88 | 194 | 3A | 20 |
| N6 | B | 10 | 265 | 2E | 18 |
| N7 | B | 27 | 177 | 1F | 20 |
| N8 | B | 89 | 253 | 5E | 21 |
| N9 | B | 276 | 96 | 5E | 26 |
| N10 | B | 118 | 274 | 2F | 22 |
| N11 | B | 44 | 225 | 2E | 19 |
| N11 | B | 44 | 225 | 3A | 19 |
| N11 | B | 44 | 225 | 3B | 19 |
| N12 | B | 47 | 192 | 2B | 20 |
| N12 | B | 47 | 192 | 2F | 20 |
| N13 | B | 317 | 152 | 7C | 12 |
| N13 | B | 317 | 152 | 7D | 12 |
| N14 | B | 335 | 58 | 3E | 13 |
| N14 | B | 335 | 58 | 6D | 13 |
| N15 | B | 331 | 86 | 4D | 13 |
| N15 | B | 331 | 86 | 4E | 13 |
| N16 | B | 340 | 18 | 4E | 13 |
| N16 | B | 340 | 18 | 6A | 13 |
| N17 | B | 371 | 90 | 3E | 13 |
| N17 | B | 371 | 90 | 4C | 13 |
| N18 | B | 379 | 52 | 2E | 13 |
| N18 | B | 379 | 52 | 6C | 13 |
| N19 | B | 127 | 271 | 1E | 21 |
| N19 | B | 127 | 271 | 2D | 21 |
| N19 | B | 127 | 271 | 3D | 21 |
| N20 | B | 304 | 32 | 2E | 14 |
| N20 | B | 304 | 32 | 4B | 14 |
| N21 | B | 278 | 51 | 2E | 14 |
| N21 | B | 278 | 51 | 3D | 14 |
| N22 | B | 178 | 113 | 4C | 27 |
| N23 | B | 79 | 149 | 7C | 15 |
| N23 | B | 79 | 149 | 7D | 15 |
| N24 | B | 20 | 89 | 3E | 16 |
| N24 | B | 20 | 89 | 4C | 16 |
| N25 | B | 29 | 52 | 4E | 16 |
| N25 | B | 29 | 52 | 6C | 16 |
| N26 | B | 53 | 18 | 4E | 16 |
| N26 | B | 53 | 18 | 6A | 16 |
| N27 | B | 60 | 185 | 3C | 20 |
| N27 | B | 60 | 185 | 3E | 20 |
| N28 | B | 54 | 86 | 2E | 16 |
| N28 | B | 54 | 86 | 4D | 16 |
| N29 | B | 58 | 57 | 2E | 16 |
| N29 | B | 58 | 57 | 6D | 16 |
| N30 | B | 117 | 54 | 3D | 17 |
| N30 | B | 117 | 54 | 3E | 17 |
| N31 | B | 97 | 31 | 2E | 17 |
| N31 | B | 97 | 31 | 4B | 17 |
| N32 | B | 260 | 78 | 4F | 12 |
| N33 | B | 36 | 211 | 1E | 19 |
| N33 | B | 36 | 211 | 2C | 19 |
| N33 | B | 36 | 211 | 3C | 19 |
| N34 | B | 96 | 70 | 1F | 26 |
| N34 | B | 96 | 70 | 6D | 26 |
| N34 | B | 96 | 70 | 7D | 26 |
| N35 | B | 96 | 96 | 1F | 26 |
| N35 | B | 96 | 96 | 6B | 26 |
| N35 | B | 96 | 96 | 7B | 26 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| N36 | B | 96 | 109 | 2F | 26 |
| N36 | B | 96 | 109 | 6A | 26 |
| N36 | B | 96 | 109 | 7A | 26 |
| N37 | B | 96 | 83 | 2F | 26 |
| N37 | B | 96 | 83 | 6C | 26 |
| N37 | B | 96 | 83 | 7C | 26 |
| N38 | B | 300 | 68 | 2D | 26 |
| N38 | B | 300 | 68 | 2F | 26 |
| N38 | B | 300 | 68 | 3D | 26 |
| N39 | B | 300 | 93 | 2B | 26 |
| N39 | B | 300 | 93 | 3B | 26 |
| N39 | B | 300 | 93 | 3F | 26 |
| N40 | B | 300 | 106 | 2A | 26 |
| N40 | B | 300 | 106 | 3A | 26 |
| N40 | B | 300 | 106 | 3F | 26 |
| N41 | B | 300 | 81 | 2C | 26 |
| N41 | B | 300 | 81 | 3C | 26 |
| N41 | B | 300 | 81 | 3F | 26 |
| N43 | B | 308 | 109 | 4A | 26 |
| N43 | B | 308 | 109 | 4F | 26 |
| N44 | B | 88 | 105 | 4F | 26 |
| N44 | B | 88 | 105 | 7A | 26 |
| N45 | B | 126 | 95 | 2D | 26 |
| N45 | B | 126 | 95 | 4F | 26 |
| N46 | B | 302 | 162 | 6A | 12 |
| N46 | B | 302 | 162 | 6D | 12 |
| N47 | B | 302 | 149 | 6C | 12 |
| N47 | B | 302 | 149 | 6D | 12 |
| N48 | B | 94 | 161 | 6A | 15 |
| N48 | B | 94 | 161 | 6D | 15 |
| N49 | B | 94 | 147 | 6C | 15 |
| N49 | B | 94 | 147 | 6D | 15 |
| N50 | B | 172 | 84 | 4E | 12 |
| N51 | B | 142 | 78 | 4F | 15 |
| N52 | B | 255 | 93 | 4E | 12 |
| N53 | B | 137 | 93 | 4E | 15 |
| N54 | B | 217 | 31 | 3E | 14 |
| N54 | B | 217 | 31 | 3F | 14 |
| N55 | B | 201 | 29 | 7C | 14 |
| N55 | B | 201 | 29 | 4E | 17 |
| N55 | B | 201 | 29 | 7D | 17 |
| P1 | B | 196 | 260 | 4B | 10 |
| P9 | B | 256 | 150 | 2B | 12 |
| P10 | B | 141 | 150 | 2B | 15 |
| P22 | B | 314 | 164 | 7A | 12 |
| P23 | B | 194 | 232 | 8C | 7 |
| P24 | B | 192 | 227 | 8A | 7 |
| P25 | B | 191 | 231 | 8A | 7 |
| P26 | B | 131 | 276 | 3D | 21 |
| P27 | B | 100 | 199 | 3B | 21 |
| P28 | B | 93 | 205 | 8B | 21 |
| P29 | B | 227 | 265 | 2B | 10 |
| P30 | B | 131 | 208 | 2A | 22 |
| P31 | B | 144 | 204 | 8C | 20 |
| P32 | B | 219 | 28 | 4C | 27 |
| P34 | B | 187 | 230 | 8A | 7 |
| P35 | B | 80 | 165 | 7A | 15 |
| P36 | B | 82 | 214 | 2C | 19 |
| P56 | B | 293 | 57 | 2D | 14 |
| P57 | B | 295 | 44 | 2D | 14 |
| P58 | B | 196 | 12 | 8D | 14 |
| P73 | B | 98 | 58 | 2D | 17 |
| P74 | B | 107 | 45 | 2D | 17 |
| P75 | B | 284 | 179 | 5D | 18 |
| P76 | B | 142 | 260 | 3D | 18 |
| P77 | B | 45 | 214 | 4C | 19 |
| P78 | B | 56 | 251 | 6A | 19 |
| P79 | B | 69 | 222 | 4B | 19 |
| P80 | B | 44 | 228 | 3A | 19 |
| P81 | B | 69 | 182 | 3B | 20 |
| P82 | B | 53 | 184 | 3A | 20 |
| P83 | B | 93 | 84 | 7B | 26 |
| P84 | B | 93 | 71 | 7C | 26 |
| P85 | B | 93 | 97 | 7B | 26 |

ROHDE & SCHWARZ

Benennung: *Designation:* ED IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT

Sprache: *Lang.:* de

Blatt: *Sh.:* 6 +

Aen. *C.I.:* 06.02

Typ: *Type:* AMIQ

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* 1110.2532.01 XY

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| P86 | B | 93 | 109 | 7A | 26 |
| P87 | B | 304 | 80 | 3B | 26 |
| P88 | B | 304 | 67 | 3C | 26 |
| P89 | B | 304 | 93 | 3B | 26 |
| P90 | B | 304 | 105 | 3A | 26 |
| P92 | B | 185 | 118 | 3C | 27 |
| P93 | B | 180 | 108 | 4B | 27 |
| R1 | B | 333 | 201 | 6D | 7 |
| R2 | B | 247 | 219 | 6C | 7 |
| R3 | B | 346 | 197 | 2B | 7 |
| R4 | B | 349 | 197 | 2B | 7 |
| R5 | B | 351 | 197 | 2B | 7 |
| R6 | B | 354 | 197 | 2B | 7 |
| R7 | B | 357 | 216 | 2B | 7 |
| R8 | B | 354 | 217 | 2B | 7 |
| R9 | B | 351 | 217 | 2B | 7 |
| R10 | B | 348 | 217 | 2B | 7 |
| R11 | B | 321 | 230 | 4B | 7 |
| R12 | B | 313 | 207 | 4C | 7 |
| R13 | B | 298 | 206 | 3D | 7 |
| R14 | B | 297 | 206 | 3D | 7 |
| R15 | B | 246 | 249 | 7C | 7 |
| R16 | B | 333 | 203 | 6E | 7 |
| R17 | B | 331 | 199 | 6E | 7 |
| R18 | B | 202 | 214 | 3A | 8 |
| R19 | B | 244 | 249 | 6C | 7 |
| R20 | B | 171 | 243 | 1D | 8 |
| R21 | B | 175 | 243 | 1D | 8 |
| R22 | B | 173 | 243 | 1D | 8 |
| R23 | B | 204 | 197 | 5A | 8 |
| R24 | B | 257 | 197 | 5A | 9 |
| R25 | B | 255 | 214 | 3A | 9 |
| R26 | B | 226 | 243 | 1D | 9 |
| R27 | B | 231 | 243 | 1D | 9 |
| R28 | B | 224 | 243 | 1D | 9 |
| R29 | B | 242 | 221 | 8D | 7 |
| R30 | B | 339 | 245 | 3D | 11 |
| R31 | B | 342 | 270 | 3D | 11 |
| R32 | B | 338 | 270 | 2D | 11 |
| R33 | B | 341 | 245 | 3D | 11 |
| R34 | B | 346 | 270 | 3C | 11 |
| R35 | B | 344 | 270 | 3C | 11 |
| R36 | B | 356 | 238 | 1B | 28 |
| R37 | B | 354 | 218 | 2B | 28 |
| R38 | B | 351 | 218 | 1B | 28 |
| R39 | B | 348 | 218 | 2B | 28 |
| R40 | B | 346 | 218 | 1B | 28 |
| R41 | B | 304 | 244 | 8B | 7 |
| R42 | B | 354 | 238 | 2B | 28 |
| R43 | B | 349 | 238 | 2B | 28 |
| R44 | B | 351 | 238 | 1B | 28 |
| R45 | B | 267 | 272 | 3C | 28 |
| R46 | B | 260 | 250 | 3B | 28 |
| R47 | B | 289 | 274 | 3D | 28 |
| R48 | B | 287 | 274 | 3D | 28 |
| R49 | B | 342 | 180 | 3E | 6 |
| R50 | B | 377 | 15 | 5E | 7 |
| R51 | B | 379 | 15 | 5E | 7 |
| R52 | B | 382 | 15 | 5E | 7 |
| R53 | B | 257 | 294 | 2D | 7 |
| R54 | B | 303 | 207 | 5D | 7 |
| R55 | B | 305 | 207 | 5E | 7 |
| R56 | B | 315 | 206 | 4D | 7 |
| R57 | B | 169 | 264 | 6C | 28 |
| R58 | B | 135 | 291 | 7C | 28 |
| R59 | B | 155 | 291 | 7D | 28 |
| R60 | B | 190 | 294 | 7E | 28 |
| R61 | B | 181 | 294 | 7D | 28 |
| R62 | B | 342 | 177 | 3F | 6 |
| R63 | B | 171 | 264 | 6D | 28 |
| R64 | B | 187 | 264 | 6E | 28 |
| R65 | B | 183 | 264 | 6D | 28 |
| R66 | B | 359 | 247 | 2C | 7 |
| R67 | B | 359 | 252 | 2C | 7 |

| el. Kennz *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R68 | B | 277 | 291 | 8A | 28 |
| R69 | B | 282 | 291 | 8A | 28 |
| R70 | B | 287 | 291 | 8A | 28 |
| R71 | B | 292 | 291 | 8A | 28 |
| R72 | B | 236 | 181 | 7C | 9 |
| R73 | B | 164 | 123 | 2A | 15 |
| R74 | B | 231 | 150 | 2A | 12 |
| R75 | B | 124 | 175 | 6C | 20 |
| R76 | B | 305 | 244 | 8C | 7 |
| R77 | B | 131 | 175 | 6C | 20 |
| R78 | B | 164 | 139 | 2C | 15 |
| R79 | B | 230 | 134 | 2C | 12 |
| R80 | B | 215 | 236 | 2E | 10 |
| R81 | B | 53 | 275 | 6B | 18 |
| R82 | B | 380 | 55 | 5C | 13 |
| R83 | B | 252 | 217 | 8D | 7 |
| R84 | B | 304 | 247 | 3D | 7 |
| R85 | B | 211 | 220 | 2D | 10 |
| R86 | B | 201 | 219 | 3C | 10 |
| R87 | B | 203 | 220 | 2C | 10 |
| R88 | B | 205 | 220 | 2C | 10 |
| R89 | B | 215 | 220 | 2E | 10 |
| R90 | B | 209 | 220 | 2D | 10 |
| R91 | B | 207 | 220 | 2D | 10 |
| R92 | B | 198 | 222 | 2E | 10 |
| R93 | B | 217 | 220 | 3E | 10 |
| R94 | B | 292 | 241 | 3B | 7 |
| R95 | B | 292 | 239 | 3B | 7 |
| R96 | B | 307 | 245 | 3D | 7 |
| R97 | B | 293 | 244 | 3B | 28 |
| R98 | B | 285 | 245 | 3B | 28 |
| R99 | B | 285 | 243 | 5C | 28 |
| R100 | B | 30 | 55 | 5C | 16 |
| R101 | B | 123 | 189 | 6B | 20 |
| R102 | B | 338 | 92 | 4D | 13 |
| R103 | B | 381 | 94 | 4B | 13 |
| R104 | B | 338 | 83 | 4D | 13 |
| R105 | B | 30 | 94 | 4B | 16 |
| R106 | B | 344 | 64 | 5D | 13 |
| R107 | B | 61 | 92 | 4D | 16 |
| R108 | B | 326 | 94 | 4E | 13 |
| R109 | B | 334 | 136 | 2E | 13 |
| R110 | B | 49 | 93 | 4E | 16 |
| R111 | B | 57 | 136 | 2E | 16 |
| R112 | B | 269 | 15 | 6C | 14 |
| R113 | B | 125 | 17 | 6C | 17 |
| R114 | B | 114 | 188 | 5C | 20 |
| R115 | B | 75 | 286 | 7B | 22 |
| R116 | B | 72 | 286 | 7B | 22 |
| R117 | B | 303 | 197 | 4D | 18 |
| R118 | B | 303 | 191 | 4D | 18 |
| R119 | B | 303 | 187 | 4D | 18 |
| R120 | B | 303 | 181 | 4C | 18 |
| R121 | B | 179 | 255 | 1D | 18 |
| R122 | B | 179 | 253 | 1D | 18 |
| R123 | B | 179 | 250 | 1D | 18 |
| R124 | B | 179 | 248 | 1C | 18 |
| R125 | B | 39 | 278 | 8A | 18 |
| R126 | B | 179 | 245 | 1C | 18 |
| R127 | B | 60 | 222 | 3B | 19 |
| R128 | B | 114 | 190 | 5C | 20 |
| R129 | B | 150 | 188 | 7B | 20 |
| R130 | B | 114 | 185 | 5C | 20 |
| R131 | B | 52 | 175 | 3F | 20 |
| R132 | B | 83 | 243 | 7A | 21 |
| R133 | B | 316 | 155 | 7B | 12 |
| R134 | B | 343 | 67 | 5D | 13 |
| R135 | B | 80 | 145 | 7B | 15 |
| R136 | B | 66 | 67 | 5D | 16 |
| R137 | B | 225 | 50 | 4C | 24 |
| R138 | B | 171 | 42 | 4B | 24 |
| R139 | B | 168 | 67 | 4D | 25 |
| R140 | B | 168 | 69 | 4C | 25 |
| R141 | B | 228 | 67 | 4A | 25 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R142 | B | 228 | 69 | 4B | 25 |
| R143 | B | 223 | 57 | 3C | 24 |
| R144 | B | 179 | 43 | 3B | 24 |
| R145 | B | 179 | 65 | 3D | 25 |
| R146 | B | 179 | 70 | 3D | 25 |
| R147 | B | 218 | 70 | 3A | 25 |
| R148 | B | 218 | 65 | 3B | 25 |
| R149 | B | 296 | 159 | 6B | 12 |
| R150 | B | 289 | 159 | 5B | 12 |
| R151 | B | 296 | 162 | 6A | 12 |
| R152 | B | 289 | 162 | 5A | 12 |
| R153 | B | 289 | 145 | 5C | 12 |
| R154 | B | 296 | 145 | 6C | 12 |
| R155 | B | 296 | 149 | 6C | 12 |
| R156 | B | 289 | 149 | 5C | 12 |
| R157 | B | 108 | 160 | 5A | 15 |
| R158 | B | 108 | 163 | 5B | 15 |
| R159 | B | 100 | 160 | 6A | 15 |
| R160 | B | 100 | 163 | 6B | 15 |
| R161 | B | 100 | 150 | 6C | 15 |
| R162 | B | 100 | 147 | 6C | 15 |
| R163 | B | 108 | 150 | 5C | 15 |
| R164 | B | 108 | 147 | 5C | 15 |
| R165 | B | 31 | 264 | 2B | 18 |
| R166 | B | 93 | 103 | 7A | 26 |
| R167 | B | 304 | 112 | 3A | 26 |
| R168 | B | 200 | 15 | 7D | 14 |
| R169 | B | 192 | 20 | 4F | 14 |
| R170 | B | 206 | 20 | 4E | 14 |
| R171 | B | 180 | 40 | 5E | 24 |
| R172 | B | 198 | 92 | 7E | 18 |
| R173 | B | 198 | 83 | 8E | 18 |
| R174 | B | 196 | 94 | 7C | 18 |
| R175 | B | 211 | 91 | 8C | 18 |
| R176 | B | 209 | 89 | 8E | 18 |
| R177 | B | 198 | 88 | 7E | 18 |
| R178 | B | 198 | 86 | 7E | 18 |
| R179 | B | 196 | 84 | 7C | 18 |
| R180 | B | 196 | 90 | 7C | 18 |
| R181 | B | 287 | 192 | 4C | 18 |
| R182 | B | 298 | 189 | 4E | 18 |
| R183 | B | 297 | 186 | 4D | 18 |
| R184 | B | 297 | 181 | 4C | 18 |
| R185 | B | 171 | 258 | 2E | 18 |
| R186 | B | 171 | 255 | 2D | 18 |
| R187 | B | 171 | 253 | 2D | 18 |
| R188 | B | 171 | 250 | 2C | 18 |
| R189 | B | 57 | 276 | 3B | 18 |
| R190 | B | 55 | 275 | 6B | 18 |
| R191 | B | 59 | 275 | 5B | 18 |
| R192 | B | 36 | 268 | 3A | 18 |
| R193 | B | 169 | 248 | 2C | 18 |
| R194 | B | 298 | 184 | 4D | 18 |
| R195 | B | 42 | 222 | 2B | 19 |
| R196 | B | 42 | 225 | 3A | 19 |
| R197 | B | 14 | 238 | 3D | 19 |
| R198 | B | 21 | 234 | 6D | 19 |
| R199 | B | 20 | 237 | 6E | 19 |
| R200 | B | 26 | 255 | 7D | 19 |
| R201 | B | 36 | 255 | 6C | 19 |
| R202 | B | 44 | 253 | 6B | 19 |
| R203 | B | 56 | 247 | 6C | 19 |
| R204 | B | 64 | 215 | 4B | 19 |
| R205 | B | 64 | 222 | 4B | 19 |
| R206 | B | 39 | 222 | 2B | 19 |
| R207 | B | 35 | 222 | 2B | 19 |
| R208 | B | 39 | 225 | 2A | 19 |
| R209 | B | 35 | 225 | 2A | 19 |
| R210 | B | 22 | 223 | 1A | 19 |
| R211 | B | 22 | 225 | 1A | 19 |
| R212 | B | 124 | 185 | 5E | 20 |
| R213 | B | 126 | 184 | 6E | 20 |
| R214 | B | 51 | 275 | 6B | 18 |
| R215 | B | 143 | 188 | 7C | 20 |

ROHDE & SCHWARZ

Benennung: *Designation:* ED IQ ANALOG/DIGITAL UNIT / IQ ANALOG/DIGITAL UNIT

Sprache: *Lang.:* de

Blatt: *Sh.:* 7 +

Aei: *C.I.:* 06.02

Typ: *Type:* AMIQ

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* 1110.2532.01 XY

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R216 | B | 49 | 185 | 2A | 20 |
| R217 | B | 36 | 178 | 1A | 20 |
| R218 | B | 39 | 197 | 1A | 20 |
| R219 | B | 48 | 182 | 2B | 20 |
| R220 | B | 137 | 188 | 6D | 20 |
| R221 | B | 139 | 188 | 7E | 20 |
| R222 | B | 147 | 178 | 7C | 20 |
| R223 | B | 126 | 179 | 5D | 20 |
| R224 | B | 124 | 180 | 5D | 20 |
| R225 | B | 170 | 185 | 2F | 10 |
| R226 | B | 220 | 253 | 3A | 10 |
| R227 | B | 117 | 203 | 3C | 21 |
| R228 | B | 115 | 201 | 1B | 21 |
| R229 | B | 105 | 223 | 4A | 21 |
| R230 | B | 112 | 210 | 2C | 21 |
| R231 | B | 105 | 238 | 4B | 21 |
| R232 | B | 96 | 205 | 5B | 21 |
| R233 | B | 96 | 202 | 5B | 21 |
| R234 | B | 93 | 219 | 6B | 21 |
| R235 | B | 118 | 210 | 2C | 21 |
| R236 | B | 130 | 199 | 1A | 21 |
| R237 | B | 215 | 240 | 2A | 10 |
| R238 | B | 190 | 53 | 2D | 23 |
| R239 | B | 212 | 25 | 6C | 14 |
| R240 | B | 204 | 53 | 2D | 24 |
| R241 | B | 219 | 49 | 2C | 24 |
| R242 | B | 208 | 47 | 2B | 24 |
| R243 | B | 208 | 51 | 2B | 24 |
| R244 | B | 220 | 47 | 2C | 24 |
| R245 | B | 185 | 62 | 2D | 25 |
| R246 | B | 187 | 74 | 2D | 25 |
| R247 | B | 190 | 74 | 2D | 25 |
| R248 | B | 189 | 62 | 2D | 25 |
| R249 | B | 208 | 74 | 2B | 25 |
| R250 | B | 206 | 62 | 2B | 25 |
| R251 | B | 209 | 62 | 2B | 25 |
| R252 | B | 211 | 74 | 2A | 25 |
| R253 | B | 120 | 101 | 2D | 26 |
| R254 | B | 205 | 105 | 2B | 27 |
| R255 | B | 176 | 106 | 5B | 27 |
| R256 | B | 177 | 108 | 4A | 27 |
| R257 | B | 171 | 95 | 5B | 27 |
| R258 | B | 218 | 102 | 2C | 27 |
| R259 | B | 372 | 97 | 4C | 13 |
| R260 | B | 22 | 97 | 4C | 16 |
| R261 | B | 70 | 196 | 3D | 20 |
| R262 | B | 94 | 222 | 8A | 21 |
| R263 | B | 39 | 272 | 3A | 18 |
| R264 | B | 143 | 175 | 6D | 20 |
| R265 | B | 86 | 184 | 3C | 20 |
| R266 | B | 295 | 13 | 4B | 14 |
| R267 | B | 295 | 16 | 4B | 14 |
| R268 | B | 295 | 18 | 4B | 14 |
| R269 | B | 295 | 21 | 4B | 14 |
| R270 | B | 101 | 21 | 4B | 17 |
| R271 | B | 101 | 13 | 4B | 17 |
| R272 | B | 101 | 16 | 4B | 17 |
| R273 | B | 101 | 18 | 4B | 17 |
| R274 | B | 222 | 20 | 8C | 14 |
| R275 | B | 218 | 20 | 8B | 14 |
| R276 | B | 179 | 20 | 8B | 17 |
| R277 | B | 175 | 20 | 8C | 17 |
| R278 | B | 14 | 255 | 2E | 18 |
| R279 | B | 199 | 258 | 7A | 10 |
| R280 | B | 29 | 191 | 1E | 20 |
| R281 | B | 25 | 188 | 1E | 20 |
| R282 | B | 95 | 265 | 1E | 22 |
| R283 | B | 230 | 265 | 2B | 10 |
| R284 | B | 80 | 251 | 5E | 21 |
| R285 | B | 80 | 257 | 5D | 21 |
| R286 | B | 204 | 30 | 7C | 14 |
| R287 | B | 230 | 277 | 3B | 10 |
| R288 | B | 270 | 86 | 6D | 26 |
| R289 | B | 270 | 80 | 6E | 26 |

| el. Kennz *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R290 | B | 271 | 106 | 5E | 26 |
| R291 | B | 271 | 111 | 5D | 26 |
| R292 | B | 111 | 264 | 2E | 22 |
| R293 | B | 111 | 268 | 2E | 22 |
| R294 | B | 311 | 159 | 6A | 12 |
| R295 | B | 328 | 155 | 7C | 12 |
| R296 | B | 330 | 155 | 7C | 12 |
| R297 | B | 348 | 51 | 7D | 13 |
| R298 | B | 348 | 48 | 6D | 13 |
| R299 | B | 373 | 32 | 7B | 13 |
| R300 | B | 373 | 36 | 7C | 13 |
| R301 | B | 335 | 50 | 7D | 13 |
| R302 | B | 332 | 50 | 7D | 13 |
| R303 | B | 340 | 28 | 8A | 13 |
| R304 | B | 340 | 30 | 7A | 13 |
| R305 | B | 335 | 11 | 6A | 13 |
| R306 | B | 337 | 11 | 6A | 13 |
| R307 | B | 367 | 97 | 4C | 13 |
| R308 | B | 364 | 97 | 4C | 13 |
| R309 | B | 370 | 39 | 7B | 13 |
| R310 | B | 370 | 42 | 7B | 13 |
| R311 | B | 272 | 42 | 3C | 14 |
| R312 | B | 275 | 42 | 3C | 14 |
| R313 | B | 69 | 155 | 7C | 15 |
| R314 | B | 67 | 155 | 7C | 15 |
| R315 | B | 86 | 163 | 6A | 15 |
| R316 | B | 19 | 38 | 7B | 16 |
| R317 | B | 19 | 42 | 7B | 16 |
| R318 | B | 17 | 97 | 4C | 16 |
| R319 | B | 61 | 11 | 6A | 16 |
| R320 | B | 59 | 11 | 6A | 16 |
| R321 | B | 56 | 28 | 8A | 16 |
| R322 | B | 56 | 30 | 7A | 16 |
| R323 | B | 14 | 97 | 4C | 16 |
| R324 | B | 58 | 49 | 7D | 16 |
| R325 | B | 23 | 32 | 7C | 16 |
| R326 | B | 23 | 35 | 7B | 16 |
| R327 | B | 55 | 49 | 7D | 16 |
| R328 | B | 71 | 50 | 7C | 16 |
| R329 | B | 71 | 48 | 7C | 16 |
| R330 | B | 123 | 41 | 3C | 17 |
| R331 | B | 120 | 41 | 3C | 17 |
| R332 | B | 269 | 166 | 4B | 12 |
| R333 | B | 127 | 121 | 4B | 15 |
| R334 | B | 297 | 54 | 1C | 14 |
| R335 | B | 99 | 54 | 1C | 17 |
| R336 | B | 271 | 12 | 6C | 14 |
| R337 | B | 271 | 15 | 6C | 14 |
| R338 | B | 271 | 17 | 5C | 14 |
| R339 | B | 127 | 15 | 5C | 17 |
| R340 | B | 127 | 12 | 6C | 17 |
| R341 | B | 125 | 12 | 6C | 17 |
| R342 | B | 121 | 72 | 1D | 26 |
| R343 | B | 232 | 22 | 6D | 24 |
| R344 | B | 298 | 36 | 3C | 14 |
| R345 | B | 165 | 22 | 5D | 24 |
| R346 | B | 98 | 37 | 3C | 17 |
| R347 | B | 37 | 181 | 2E | 20 |
| R348 | B | 38 | 194 | 2A | 20 |
| R349 | B | 72 | 179 | 3B | 20 |
| R350 | B | 383 | 58 | 5C | 13 |
| R351 | B | 269 | 17 | 6B | 14 |
| R352 | B | 257 | 20 | 7C | 14 |
| R353 | B | 257 | 22 | 7C | 14 |
| R354 | B | 257 | 17 | 7C | 14 |
| R355 | B | 257 | 25 | 7C | 14 |
| R356 | B | 33 | 58 | 5C | 16 |
| R357 | B | 127 | 17 | 6B | 17 |
| R358 | B | 139 | 17 | 7C | 17 |
| R359 | B | 139 | 20 | 7C | 17 |
| R360 | B | 139 | 22 | 7C | 17 |
| R361 | B | 139 | 25 | 7C | 17 |
| R362 | B | 47 | 229 | 3A | 19 |
| R363 | B | 50 | 229 | 3B | 19 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R364 | B | 11 | 222 | 1B | 19 |
| R365 | B | 39 | 205 | 1F | 19 |
| R366 | B | 46 | 219 | 2F | 19 |
| R367 | B | 50 | 218 | 2E | 19 |
| R368 | B | 41 | 214 | 1E | 19 |
| R369 | B | 239 | 48 | 3C | 23 |
| R370 | B | 239 | 46 | 4C | 23 |
| R371 | B | 239 | 44 | 5C | 23 |
| R372 | B | 157 | 51 | 5B | 23 |
| R373 | B | 157 | 49 | 4B | 23 |
| R374 | B | 157 | 39 | 7B | 23 |
| R375 | B | 157 | 37 | 7B | 23 |
| R376 | B | 239 | 56 | 7C | 23 |
| R377 | B | 239 | 58 | 7C | 23 |
| R378 | B | 157 | 47 | 3B | 23 |
| R379 | B | 239 | 54 | 5C | 24 |
| R380 | B | 239 | 52 | 6C | 24 |
| R381 | B | 239 | 38 | 8C | 24 |
| R382 | B | 239 | 40 | 7C | 24 |
| R383 | B | 157 | 55 | 7A | 24 |
| R384 | B | 157 | 57 | 8A | 24 |
| R385 | B | 157 | 43 | 6A | 24 |
| R386 | B | 157 | 41 | 5A | 24 |
| R387 | B | 239 | 67 | 5A | 25 |
| R388 | B | 239 | 70 | 6A | 25 |
| R389 | B | 239 | 65 | 7A | 25 |
| R390 | B | 157 | 65 | 7D | 25 |
| R391 | B | 157 | 68 | 6D | 25 |
| R392 | B | 157 | 70 | 5D | 25 |
| R393 | B | 168 | 95 | 5E | 27 |
| R394 | B | 274 | 166 | 4B | 12 |
| R395 | B | 262 | 121 | 4C | 12 |
| R396 | B | 269 | 121 | 4C | 12 |
| R397 | B | 122 | 121 | 4B | 15 |
| R398 | B | 134 | 166 | 4C | 15 |
| R399 | B | 127 | 166 | 4C | 15 |
| R400 | B | 337 | 136 | 2D | 13 |
| R401 | B | 60 | 136 | 2D | 16 |
| R402 | B | 279 | 159 | 4B | 12 |
| R403 | B | 279 | 151 | 4B | 12 |
| R404 | B | 278 | 128 | 4C | 12 |
| R405 | B | 278 | 130 | 4C | 12 |
| R406 | B | 340 | 64 | 5D | 13 |
| R407 | B | 342 | 52 | 6D | 13 |
| R408 | B | 378 | 79 | 5B | 13 |
| R409 | B | 344 | 86 | 4D | 13 |
| R410 | B | 383 | 55 | 6B | 13 |
| R411 | B | 383 | 49 | 6B | 13 |
| R412 | B | 117 | 127 | 4B | 15 |
| R413 | B | 117 | 136 | 4B | 15 |
| R414 | B | 118 | 157 | 4C | 15 |
| R415 | B | 118 | 158 | 4C | 15 |
| R416 | B | 67 | 85 | 4C | 16 |
| R417 | B | 32 | 49 | 6B | 16 |
| R418 | B | 32 | 55 | 6B | 16 |
| R419 | B | 28 | 78 | 5B | 16 |
| R420 | B | 65 | 51 | 6D | 16 |
| R421 | B | 60 | 88 | 5D | 16 |
| R422 | B | 299 | 156 | 6B | 12 |
| R423 | B | 303 | 166 | 6A | 12 |
| R424 | B | 303 | 153 | 6C | 12 |
| R425 | B | 299 | 143 | 6C | 12 |
| R426 | B | 256 | 155 | 2B | 12 |
| R427 | B | 318 | 155 | 7C | 12 |
| R428 | B | 337 | 18 | 6A | 13 |
| R429 | B | 61 | 83 | 4D | 16 |
| R430 | B | 337 | 20 | 7A | 13 |
| R431 | B | 286 | 44 | 2D | 14 |
| R432 | B | 278 | 47 | 3D | 14 |
| R433 | B | 275 | 48 | 3C | 14 |
| R434 | B | 307 | 31 | 4B | 14 |
| R435 | B | 272 | 31 | 5B | 14 |
| R436 | B | 93 | 156 | 6A | 15 |
| R437 | B | 141 | 155 | 2B | 15 |

ROHDE & SCHWARZ

Benennung: *Designation:* ED IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT

Sprache: *Lang.:* de

Blatt: *Sh.:* 8 +

Aen: *C.I.:* 06.02

Typ: *Type:* AMIQ

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* 1110.2532.01 XY

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R438 | B | 78 | 145 | 7C | 15 |
| R439 | B | 97 | 166 | 6B | 15 |
| R440 | B | 93 | 143 | 6C | 15 |
| R441 | B | 97 | 153 | 6C | 15 |
| R442 | B | 67 | 64 | 5D | 16 |
| R443 | B | 59 | 18 | 6A | 16 |
| R444 | B | 59 | 20 | 7A | 16 |
| R445 | B | 107 | 57 | 2D | 17 |
| R446 | B | 123 | 52 | 3D | 17 |
| R447 | B | 123 | 50 | 3C | 17 |
| R448 | B | 100 | 31 | 4B | 17 |
| R449 | B | 124 | 31 | 5B | 17 |
| R450 | B | 151 | 183 | 7C | 20 |
| R451 | B | 72 | 224 | 4B | 19 |
| R452 | B | 257 | 27 | 7C | 14 |
| R453 | B | 139 | 27 | 7C | 17 |
| R454 | B | 56 | 184 | 3B | 20 |
| R455 | B | 335 | 83 | 4D | 13 |
| R456 | B | 335 | 89 | 4D | 13 |
| R457 | B | 374 | 85 | 4B | 13 |
| R458 | B | 374 | 91 | 4B | 13 |
| R459 | B | 219 | 244 | 3B | 10 |
| R460 | B | 222 | 254 | 4B | 10 |
| R461 | B | 272 | 26 | 6B | 14 |
| R462 | B | 234 | 265 | 5E | 10 |
| R463 | B | 201 | 240 | 3B | 10 |
| R464 | B | 23 | 85 | 4B | 16 |
| R465 | B | 23 | 91 | 4B | 16 |
| R466 | B | 58 | 83 | 4D | 16 |
| R467 | B | 58 | 89 | 4D | 16 |
| R468 | B | 124 | 26 | 6B | 17 |
| R469 | B | 287 | 57 | 1D | 14 |
| R470 | B | 297 | 48 | 1D | 14 |
| R471 | B | 105 | 44 | 1D | 17 |
| R472 | B | 100 | 59 | 1D | 17 |
| R473 | B | 29 | 206 | 2C | 19 |
| R474 | B | 72 | 175 | 4B | 20 |
| R475 | B | 46 | 195 | 2A | 20 |
| R476 | B | 46 | 181 | 2B | 20 |
| R477 | B | 100 | 270 | 1F | 22 |
| R478 | B | 188 | 114 | 3B | 27 |
| R479 | B | 188 | 106 | 3A | 27 |
| R480 | B | 193 | 110 | 3B | 27 |
| R481 | B | 182 | 118 | 3C | 27 |
| R482 | B | 267 | 121 | 4C | 12 |
| R483 | B | 129 | 166 | 4C | 15 |
| R484 | B | 174 | 42 | 3B | 24 |
| R485 | B | 224 | 52 | 3C | 24 |
| R486 | B | 173 | 67 | 4D | 25 |
| R487 | B | 173 | 69 | 4C | 25 |
| R488 | B | 223 | 69 | 4A | 25 |
| R489 | B | 223 | 67 | 4B | 25 |
| R490 | B | 314 | 146 | 6C | 12 |
| R491 | B | 85 | 150 | 6C | 15 |
| R492 | B | 75 | 291 | 8B | 22 |
| R493 | B | 72 | 291 | 8B | 22 |
| R494 | B | 84 | 221 | 6A | 21 |
| R495 | B | 244 | 47 | 2A | 12 |
| R496 | B | 244 | 145 | 2A | 12 |
| R497 | B | 244 | 144 | 2A | 12 |
| R498 | B | 244 | 142 | 2B | 12 |
| R499 | B | 244 | 140 | 2B | 12 |
| R500 | B | 244 | 138 | 2B | 12 |
| R501 | B | 244 | 124 | 2D | 12 |
| R502 | B | 244 | 128 | 2C | 12 |
| R503 | B | 244 | 130 | 2C | 12 |
| R504 | B | 244 | 132 | 2C | 12 |
| R505 | B | 244 | 134 | 2B | 12 |
| R506 | B | 244 | 136 | 2B | 12 |
| R507 | B | 244 | 126 | 2D | 12 |
| R508 | B | 244 | 123 | 2D | 12 |
| R509 | B | 152 | 147 | 2D | 15 |
| R510 | B | 152 | 143 | 2C | 15 |
| R511 | B | 152 | 141 | 2C | 15 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R512 | B | 152 | 137 | 2B | 15 |
| R513 | B | 152 | 135 | 2B | 15 |
| R514 | B | 152 | 145 | 2D | 15 |
| R515 | B | 152 | 149 | 2D | 15 |
| R516 | B | 152 | 133 | 2B | 15 |
| R517 | B | 152 | 130 | 2B | 15 |
| R518 | B | 152 | 124 | 2A | 15 |
| R519 | B | 152 | 126 | 2A | 15 |
| R520 | B | 152 | 128 | 2A | 15 |
| R521 | B | 152 | 131 | 2B | 15 |
| R522 | B | 152 | 139 | 2C | 15 |
| R523 | B | 51 | 265 | 5A | 18 |
| R524 | B | 44 | 250 | 6B | 19 |
| R525 | B | 56 | 245 | 6B | 19 |
| R526 | B | 50 | 255 | 6A | 19 |
| R527 | B | 143 | 181 | 7C | 20 |
| R528 | B | 144 | 201 | 8C | 20 |
| R529 | B | 141 | 201 | 8C | 20 |
| R530 | B | 117 | 199 | 2B | 21 |
| R531 | B | 117 | 204 | 2B | 21 |
| R532 | B | 100 | 203 | 5B | 21 |
| R533 | B | 117 | 197 | 2A | 21 |
| R534 | B | 90 | 205 | 8B | 21 |
| R535 | B | 104 | 199 | 3B | 21 |
| R536 | B | 138 | 201 | 7D | 20 |
| R537 | B | 193 | 163 | 8A | 8 |
| R538 | B | 183 | 255 | 5B | 10 |
| R539 | B | 183 | 244 | 5B | 10 |
| R540 | B | 147 | 238 | 6C | 22 |
| R541 | B | 203 | 240 | 7A | 10 |
| R542 | B | 166 | 185 | 2F | 10 |
| R543 | B | 62 | 189 | 3C | 20 |
| R544 | B | 302 | 164 | 6A | 12 |
| R545 | B | 302 | 151 | 6B | 12 |
| R546 | B | 291 | 56 | 2D | 14 |
| R547 | B | 293 | 45 | 2D | 14 |
| R548 | B | 94 | 159 | 6A | 15 |
| R549 | B | 94 | 145 | 6B | 15 |
| R550 | B | 103 | 46 | 2D | 17 |
| R551 | B | 104 | 58 | 2D | 17 |
| R552 | B | 93 | 64 | 7C | 26 |
| R553 | B | 93 | 77 | 7C | 26 |
| R554 | B | 93 | 90 | 7B | 26 |
| R555 | B | 304 | 74 | 3C | 26 |
| R556 | B | 304 | 87 | 3C | 26 |
| R557 | B | 304 | 99 | 3B | 26 |
| R558 | B | 341 | 55 | 6D | 13 |
| R559 | B | 64 | 54 | 6D | 16 |
| R560 | B | 264 | 17 | 7B | 14 |
| R561 | B | 269 | 12 | 6C | 14 |
| R562 | B | 125 | 15 | 6C | 17 |
| R563 | B | 132 | 17 | 7B | 17 |
| R564 | B | 147 | 175 | 7D | 20 |
| R565 | B | 232 | 32 | 8D | 24 |
| R566 | B | 23 | 228 | 2B | 19 |
| R567 | B | 30 | 196 | 2B | 20 |
| R568 | B | 88 | 205 | 6A | 21 |
| R569 | B | 165 | 32 | 7D | 24 |
| R570 | B | 328 | 151 | 7C | 12 |
| R571 | B | 330 | 148 | 7D | 12 |
| R572 | B | 342 | 28 | 8A | 13 |
| R573 | B | 349 | 27 | 8A | 13 |
| R574 | B | 361 | 17 | 5A | 13 |
| R575 | B | 363 | 19 | 5A | 13 |
| R576 | B | 371 | 150 | 2A | 13 |
| R577 | B | 371 | 155 | 2A | 13 |
| R578 | B | 260 | 44 | 3D | 14 |
| R579 | B | 268 | 44 | 3D | 14 |
| R580 | B | 222 | 34 | 7D | 14 |
| R581 | B | 227 | 31 | 7D | 14 |
| R582 | B | 179 | 258 | 2E | 18 |
| R583 | B | 298 | 192 | 4E | 18 |
| R584 | B | 217 | 37 | 3E | 14 |
| R585 | B | 212 | 37 | 3E | 14 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R586 | B | 303 | 177 | 4C | 18 |
| R587 | B | 66 | 210 | 4B | 19 |
| R588 | B | 205 | 17 | 7E | 14 |
| R589 | B | 188 | 14 | 7D | 14 |
| R590 | B | 191 | 14 | 7D | 14 |
| R591 | B | 208 | 17 | 7E | 14 |
| R592 | B | 69 | 151 | 7C | 15 |
| R593 | B | 67 | 148 | 7D | 15 |
| R594 | B | 37 | 239 | 8B | 19 |
| R595 | B | 25 | 151 | 2A | 16 |
| R596 | B | 25 | 147 | 2A | 16 |
| R597 | B | 34 | 17 | 5A | 16 |
| R598 | B | 30 | 17 | 5A | 16 |
| R599 | B | 54 | 28 | 8A | 16 |
| R600 | B | 47 | 27 | 8A | 16 |
| R601 | B | 118 | 44 | 3D | 17 |
| R602 | B | 113 | 44 | 3D | 17 |
| R603 | B | 174 | 34 | 7D | 17 |
| R604 | B | 169 | 31 | 7D | 17 |
| R605 | B | 87 | 102 | 8A | 26 |
| R606 | B | 104 | 74 | 7D | 26 |
| R607 | B | 104 | 86 | 7C | 26 |
| R608 | B | 104 | 99 | 7B | 26 |
| R609 | B | 99 | 74 | 7C | 26 |
| R610 | B | 99 | 86 | 7C | 26 |
| R611 | B | 99 | 99 | 7B | 26 |
| R612 | B | 93 | 112 | 7A | 26 |
| R613 | B | 309 | 112 | 4A | 26 |
| R614 | B | 292 | 65 | 3D | 26 |
| R615 | B | 292 | 77 | 3C | 26 |
| R616 | B | 292 | 90 | 3B | 26 |
| R617 | B | 298 | 65 | 3C | 26 |
| R618 | B | 298 | 77 | 3C | 26 |
| R619 | B | 298 | 90 | 3B | 26 |
| R620 | B | 303 | 103 | 3A | 26 |
| R621 | B | 156 | 119 | 5C | 27 |
| R622 | B | 159 | 116 | 5C | 27 |
| R623 | B | 342 | 70 | 5E | 13 |
| R624 | B | 65 | 69 | 5D | 16 |
| R625 | B | 99 | 112 | 7A | 26 |
| R626 | B | 298 | 103 | 3A | 26 |
| R627 | B | 104 | 112 | 7A | 26 |
| R628 | B | 292 | 103 | 3A | 26 |
| R629 | B | 19 | 209 | 1C | 19 |
| R630 | B | 32 | 208 | 2C | 19 |
| R631 | B | 126 | 92 | 1E | 26 |
| R632 | B | 331 | 94 | 4E | 13 |
| R633 | B | 281 | 51 | 3D | 14 |
| R634 | B | 114 | 57 | 3D | 17 |
| R635 | B | 54 | 93 | 4E | 16 |
| R636 | B | 63 | 269 | 5A | 18 |
| R637 | B | 275 | 30 | 5B | 14 |
| R638 | B | 121 | 30 | 5B | 17 |
| R639 | B | 36 | 264 | 3B | 18 |
| R640 | B | 199 | 248 | 6B | 10 |
| R641 | B | 190 | 241 | 6B | 10 |
| R642 | B | 294 | 51 | 1C | 14 |
| R643 | B | 301 | 31 | 4C | 14 |
| R644 | B | 295 | 36 | 3C | 14 |
| R645 | B | 211 | 23 | 6D | 14 |
| R646 | B | 192 | 248 | 6B | 10 |
| R647 | B | 199 | 252 | 6A | 10 |
| R648 | B | 103 | 31 | 4C | 17 |
| R649 | B | 99 | 49 | 1C | 17 |
| R650 | B | 185 | 23 | 6D | 14 |
| R651 | B | 101 | 37 | 3C | 17 |
| R652 | B | 66 | 264 | 6B | 18 |
| R653 | B | 100 | 276 | 1F | 22 |
| R654 | B | 220 | 83 | 4D | 12 |
| R655 | B | 136 | 202 | 7D | 20 |
| R656 | B | 135 | 187 | 7D | 20 |
| R657 | B | 146 | 200 | 7D | 20 |
| R658 | B | 132 | 225 | 7D | 22 |
| R659 | B | 266 | 69 | 4F | 12 |

ROHDE & SCHWARZ

Benennung: *Designation:* ED IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT

Sprache: *Lang.:* de

Blatt: *Sh.:* 9 +

Aer: *C.I.:* 06.02

Typ: *Type:* AMIQ

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* **1110.2532.01 XY**

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R660 | B | 266 | 63 | 4F | 12 |
| R661 | B | 91 | 267 | 7C | 22 |
| R662 | B | 114 | 224 | 2A | 22 |
| R663 | B | 114 | 238 | 1B | 22 |
| R664 | B | 328 | 197 | 6E | 7 |
| R665 | B | 266 | 103 | 4E | 12 |
| R666 | B | 266 | 109 | 4E | 12 |
| R667 | B | 132 | 224 | 7D | 22 |
| R668 | B | 93 | 261 | 6C | 22 |
| R669 | B | 132 | 211 | 8D | 22 |
| R670 | B | 131 | 217 | 8D | 22 |
| R671 | B | 130 | 106 | 4E | 15 |
| R672 | B | 130 | 112 | 4E | 15 |
| R673 | B | 140 | 206 | 3A | 22 |
| R674 | B | 143 | 219 | 3A | 22 |
| R675 | B | 115 | 261 | 2B | 22 |
| R676 | B | 112 | 242 | 3E | 22 |
| R677 | B | 51 | 180 | 3A | 20 |
| R678 | B | 83 | 173 | 4C | 20 |
| R679 | B | 129 | 263 | 1E | 21 |
| R680 | B | 140 | 276 | 1E | 21 |
| R681 | B | 130 | 62 | 4F | 15 |
| R682 | B | 130 | 68 | 4F | 15 |
| R683 | B | 238 | 91 | 5D | 12 |
| R684 | B | 233 | 91 | 4D | 12 |
| R685 | B | 184 | 84 | 4E | 12 |
| R686 | B | 191 | 84 | 4E | 12 |
| R687 | B | 126 | 175 | 6C | 20 |
| R688 | B | 125 | 274 | 3D | 21 |
| R689 | B | 185 | 25 | 6D | 17 |
| R690 | B | 202 | 25 | 6C | 14 |
| R691 | B | 194 | 25 | 6D | 17 |
| R692 | B | 275 | 25 | 6B | 14 |
| R693 | B | 121 | 25 | 6B | 17 |
| R694 | B | 206 | 27 | 7C | 14 |
| R695 | B | 190 | 29 | 7D | 17 |
| R696 | B | 200 | 36 | 7C | 14 |
| R697 | B | 196 | 36 | 6D | 17 |
| R698 | B | 377 | 158 | 2A | 13 |
| R699 | B | 369 | 19 | 5A | 13 |
| R700 | B | 24 | 17 | 5A | 16 |
| R701 | B | 10 | 151 | 2A | 16 |
| R702 | B | 215 | 98 | 1F | 27 |
| R703 | B | 12 | 261 | 2F | 18 |
| R704 | B | 9 | 259 | 2F | 18 |
| R705 | B | 30 | 273 | 2B | 18 |
| R706 | B | 234 | 277 | 5E | 10 |
| R707 | B | 192 | 33 | 7C | 17 |
| R708 | B | 129 | 277 | 3E | 21 |
| R709 | B | 33 | 287 | 2B | 18 |
| R710 | B | 209 | 30 | 7C | 14 |
| R711 | B | 39 | 287 | 2B | 18 |
| R712 | B | 243 | 248 | 6D | 7 |
| R713 | B | 248 | 248 | 6D | 7 |
| R714 | B | 250 | 248 | 6D | 7 |
| R715 | B | 302 | 245 | 8B | 7 |
| R716 | B | 298 | 236 | 5A | 7 |
| R717 | B | 296 | 236 | 5A | 7 |
| R718 | B | 290 | 237 | 5A | 7 |
| R719 | B | 283 | 238 | 6A | 7 |
| R720 | B | 237 | 234 | 1C | 8 |
| R721 | B | 300 | 196 | 4A | 8 |
| R722 | B | 300 | 198 | 4A | 9 |
| R723 | B | 321 | 210 | 5E | 7 |
| R724 | B | 192 | 252 | 6C | 10 |
| R725 | B | 220 | 250 | 4A | 10 |
| R726 | B | 220 | 248 | 4A | 10 |
| R727 | B | 212 | 258 | 4C | 10 |
| R728 | B | 210 | 258 | 4C | 10 |
| R729 | B | 204 | 258 | 8A | 10 |
| R730 | B | 202 | 258 | 8A | 10 |
| R731 | B | 175 | 180 | 1E | 10 |
| R732 | B | 169 | 180 | 1F | 10 |
| R733 | B | 216 | 238 | 1A | 10 |

| el. Kennz *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R734 | B | 206 | 275 | 6B | 28 |
| R735 | B | 218 | 218 | 3E | 10 |
| R736 | B | 198 | 219 | 3C | 10 |
| R737 | B | 301 | 278 | 6B | 28 |
| R738 | B | 297 | 278 | 6C | 28 |
| R739 | B | 303 | 290 | 7B | 28 |
| R740 | B | 298 | 290 | 7B | 28 |
| R741 | B | 149 | 238 | 7A | 22 |
| R742 | B | 186 | 32 | 6C | 17 |
| R743 | B | 363 | 268 | 1A | 7 |
| R744 | B | 149 | 236 | 7A | 22 |
| R745 | B | 131 | 235 | 6D | 22 |
| R746 | B | 217 | 259 | 3B | 10 |
| R747 | B | 246 | 216 | 2E | 7 |
| R748 | B | 258 | 217 | 3E | 7 |
| R749 | B | 123 | 273 | 1F | 21 |
| R750 | B | 240 | 248 | 6D | 7 |
| R751 | B | 319 | 201 | 6D | 7 |
| R752 | B | 217 | 224 | 2E | 10 |
| R753 | B | 302 | 258 | 3C | 7 |
| R754 | B | 215 | 23 | 5D | 14 |
| R755 | B | 183 | 23 | 5D | 17 |
| R756 | B | 197 | 252 | 6B | 10 |
| R757 | B | 209 | 86 | 7E | 18 |
| R758 | B | 244 | 120 | 1D | 12 |
| R759 | B | 216 | 241 | 2A | 10 |
| R760 | B | 191 | 252 | 6C | 10 |
| R761 | B | 285 | 143 | 5C | 12 |
| R762 | B | 285 | 152 | 5C | 12 |
| R763 | B | 285 | 158 | 5B | 12 |
| R764 | B | 285 | 149 | 5B | 12 |
| R765 | B | 111 | 154 | 5B | 15 |
| R766 | B | 111 | 145 | 5B | 15 |
| R767 | B | 111 | 150 | 5C | 15 |
| R768 | B | 111 | 159 | 5C | 15 |
| R769 | B | 178 | 165 | 8B | 8 |
| R770 | B | 170 | 165 | 8B | 8 |
| R771 | B | 184 | 165 | 8A | 8 |
| R772 | B | 189 | 165 | 8A | 8 |
| R773 | B | 239 | 165 | 8A | 9 |
| R774 | B | 233 | 165 | 8A | 9 |
| R775 | B | 229 | 165 | 8B | 9 |
| R776 | B | 222 | 165 | 8B | 9 |
| R777 | B | 180 | 175 | 7A | 8 |
| R778 | B | 232 | 175 | 7A | 9 |
| R779 | B | 281 | 244 | 4D | 7 |
| R780 | B | 165 | 233 | 8D | 7 |
| R781 | B | 316 | 159 | 7C | 12 |
| R782 | B | 79 | 143 | 6C | 15 |
| R783 | B | 308 | 33 | 4B | 14 |
| R784 | B | 100 | 33 | 4B | 17 |
| R785 | B | 152 | 152 | 1D | 15 |
| T1 | B | 88 | 225 | 6A | 21 |
| U1 | B | 211 | 54 | 3B | 24 |
| U1 | B | 211 | 54 | 3B | 24 |
| U1 | B | 211 | 54 | 3C | 24 |
| U1 | B | 211 | 54 | 3D | 24 |
| U1 | B | 211 | 54 | 4E | 24 |
| U2 | B | 182 | 65 | 3C | 25 |
| U2 | B | 182 | 65 | 3D | 25 |
| U2 | B | 182 | 65 | 3D | 25 |
| U2 | B | 182 | 65 | 3E | 25 |
| U2 | B | 182 | 65 | 3E | 25 |
| U3 | B | 214 | 71 | 3A | 25 |
| U3 | B | 214 | 71 | 3B | 25 |
| U3 | B | 214 | 71 | 3B | 25 |
| U3 | B | 214 | 71 | 3B | 25 |
| U3 | B | 214 | 71 | 3E | 25 |
| V1 | B | 257 | 286 | 2D | 7 |
| V2 | B | 136 | 286 | 7C | 28 |
| V3 | B | 156 | 286 | 7D | 28 |
| V4 | B | 191 | 285 | 7E | 28 |
| V5 | B | 179 | 285 | 7D | 28 |
| V6 | B | 293 | 286 | 7A | 28 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| V7 | B | 288 | 286 | 7A | 28 |
| V8 | B | 64 | 219 | 4B | 19 |
| V10 | B | 40 | 266 | 3B | 18 |
| V11 | B | 93 | 181 | 4C | 20 |
| V12 | B | 126 | 80 | 1E | 26 |
| V13 | B | 32 | 268 | 2B | 18 |
| V14 | B | 82 | 276 | 7B | 22 |
| V15 | B | 212 | 41 | 2B | 24 |
| V16 | B | 216 | 41 | 2D | 24 |
| V17 | B | 196 | 67 | 2E | 25 |
| V18 | B | 196 | 71 | 2C | 25 |
| V19 | B | 201 | 69 | 2A | 25 |
| V20 | B | 201 | 65 | 2B | 25 |
| V21 | B | 185 | 109 | 3B | 27 |
| V22 | B | 54 | 173 | 3E | 20 |
| V23 | B | 304 | 20 | 4A | 14 |
| V24 | B | 297 | 23 | 4B | 14 |
| V25 | B | 94 | 22 | 4B | 17 |
| V26 | B | 97 | 22 | 4A | 17 |
| V27 | B | 244 | 48 | 3C | 23 |
| V28 | B | 244 | 46 | 4C | 23 |
| V29 | B | 244 | 43 | 5C | 23 |
| V30 | B | 152 | 49 | 4A | 23 |
| V31 | B | 152 | 46 | 3A | 23 |
| V32 | B | 152 | 51 | 5A | 23 |
| V33 | B | 221 | 48 | 3C | 24 |
| V34 | B | 174 | 45 | 3B | 24 |
| V35 | B | 245 | 67 | 5A | 25 |
| V36 | B | 172 | 70 | 4D | 25 |
| V37 | B | 172 | 65 | 4D | 25 |
| V38 | B | 245 | 70 | 6A | 25 |
| V39 | B | 245 | 65 | 8A | 25 |
| V40 | B | 152 | 65 | 8C | 25 |
| V41 | B | 152 | 68 | 6C | 25 |
| V42 | B | 225 | 70 | 4B | 25 |
| V43 | B | 225 | 65 | 4A | 25 |
| V44 | B | 152 | 70 | 5C | 25 |
| V45 | B | 64 | 192 | 3E | 20 |
| V46 | B | 293 | 31 | 4B | 14 |
| V47 | B | 304 | 17 | 4A | 14 |
| V48 | B | 86 | 27 | 4B | 17 |
| V49 | B | 86 | 23 | 4A | 17 |
| V50 | B | 85 | 277 | 7B | 22 |
| V51 | B | 71 | 231 | 5B | 19 |
| V52 | B | 187 | 104 | 3A | 27 |
| V53 | B | 187 | 117 | 3B | 27 |
| V54 | B | 151 | 178 | 7D | 20 |
| V55 | B | 129 | 182 | 6D | 20 |
| V56 | B | 129 | 177 | 5D | 20 |
| V57 | B | 233 | 20 | 6E | 24 |
| V58 | B | 23 | 220 | 2B | 19 |
| V59 | B | 35 | 194 | 2B | 20 |
| V60 | B | 154 | 38 | 7B | 23 |
| V61 | B | 242 | 56 | 7C | 23 |
| V62 | B | 242 | 52 | 6C | 24 |
| V63 | B | 242 | 38 | 8C | 24 |
| V64 | B | 154 | 56 | 8A | 24 |
| V65 | B | 154 | 43 | 8A | 24 |
| V66 | B | 199 | 27 | 6C | 14 |
| V66 | B | 199 | 27 | 6D | 17 |
| V67 | B | 163 | 20 | 5E | 24 |
| V68 | B | 35 | 277 | 3A | 18 |
| V69 | B | 93 | 177 | 4C | 20 |
| V70 | B | 59 | 192 | 2E | 20 |
| V71 | B | 188 | 255 | 5B | 10 |
| V72 | B | 197 | 243 | 6B | 10 |
| V73 | B | 194 | 245 | 6B | 10 |
| V74 | B | 199 | 243 | 7B | 10 |
| V75 | B | 192 | 245 | 7B | 10 |
| V76 | B | 188 | 244 | 5B | 10 |
| V77 | B | 304 | 285 | 7B | 28 |
| V78 | B | 299 | 285 | 7B | 28 |
| V79 | B | 233 | 30 | 8E | 24 |
| V80 | B | 163 | 30 | 7E | 24 |

ROHDE & SCHWARZ

Benennung: *Designation:* ED IQ ANALOG/DIGITAL UNIT
IQ ANALOG/DIGITAL UNIT

Sprache: *Lang.:* de

Blatt: *Sh.:* 10 +

Aen: *C.I.:* 06.02

Typ: *Type:* AMIQ

Datum: *Date:* 99–06–10

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* **1110.2532.01 XY**

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| V81 | B | 55 | 179 | 3B | 20 |
| W30 | B | 413 | 42 | 1D | 29 |
| X1 | B | 147 | 244 | 8B | 22 |
| X2 | B | 198 | 153 | 1E | 6 |
| X3 | B | 300 | 176 | 4C | 18 |
| X4 | B | 174 | 245 | 1C | 18 |
| X5 | B | 322 | 163 | 8C | 12 |
| X6 | B | 349 | 56 | 7D | 13 |
| X7 | B | 297 | 260 | 2D | 28 |
| X8 | B | 347 | 132 | 2D | 13 |
| X9 | B | 310 | 41 | 8C | 13 |
| X10 | B | 368 | 267 | 1B | 7 |
| X11 | B | 363 | 11 | 5A | 13 |
| X12 | B | 377 | 150 | 1A | 13 |
| X13 | B | 377 | 132 | 2B | 13 |
| X14 | B | 330 | 161 | 8C | 12 |
| X15 | B | 364 | 41 | 7B | 13 |
| X16 | B | 74 | 163 | 8C | 15 |
| X17 | B | 26 | 132 | 2B | 16 |
| X18 | B | 19 | 151 | 1A | 16 |
| X19 | B | 30 | 10 | 5A | 16 |
| X20 | B | 368 | 211 | 1D | 7 |
| X21 | B | 86 | 41 | 8C | 16 |
| X22 | B | 67 | 161 | 8C | 15 |
| X23 | B | 13 | 40 | 7B | 16 |
| X24 | B | 72 | 55 | 7C | 16 |
| X25 | B | 231 | 116 | 8C | 27 |
| X26 | B | 48 | 133 | 2D | 16 |
| X27 | B | 43 | 238 | 8B | 19 |
| X28 | B | 90 | 184 | 4C | 20 |
| X29 | B | 326 | 241 | 4E | 7 |
| X30 | B | 382 | 10 | 5E | 7 |
| X31 | B | 240 | 255 | 7D | 7 |
| X32 | B | 257 | 255 | 3E | 28 |
| X33 | B | 318 | 258 | 3C | 11 |
| X34 | B | 61 | 255 | 5B | 19 |
| X35 | B | 298 | 239 | 3C | 7 |
| X36 | B | 304 | 241 | 4D | 7 |
| X37 | B | 305 | 239 | 3D | 7 |
| X38 | B | 288 | 239 | 3C | 28 |
| X39 | B | 159 | 156 | 8C | 8 |
| X40 | B | 210 | 156 | 8C | 9 |
| X60 | B | 415 | 130 | 1A | 29 |
| X61 | B | 413 | 145 | 1C | 29 |
| X63 | B | 402 | 128 | 2A | 29 |
| X100 | B | 135 | 297 | 8C | 28 |
| X101 | B | 155 | 297 | 8D | 28 |
| X102 | B | 175 | 297 | 8D | 28 |
| X103 | B | 196 | 297 | 8E | 28 |
| X104 | B | 257 | 297 | 1A | 6 |
| X105 | B | 318 | 282 | 4B | 11 |
| X106 | B | 290 | 298 | 8B | 28 |
| X107 | B | 33 | 297 | 6A | 6 |
| X108 | B | 53 | 297 | 7A | 6 |
| X109 | B | 74 | 297 | 7A | 6 |
| X111 | B | 218 | 15 | 8D | 6 |
| X112 | B | 178 | 15 | 8D | 6 |
| X115 | B | 94 | 297 | 7A | 6 |
| X116 | B | 114 | 297 | 8A | 6 |
| X117 | B | 216 | 297 | 8A | 6 |
| X118 | B | 236 | 297 | 8A | 6 |
| X123 | B | 178 | 291 | 7D | 28 |
| X124 | B | 189 | 291 | 7E | 28 |
| X133 | B | 171 | 291 | 8D | 28 |
| X134 | B | 199 | 291 | 8E | 28 |

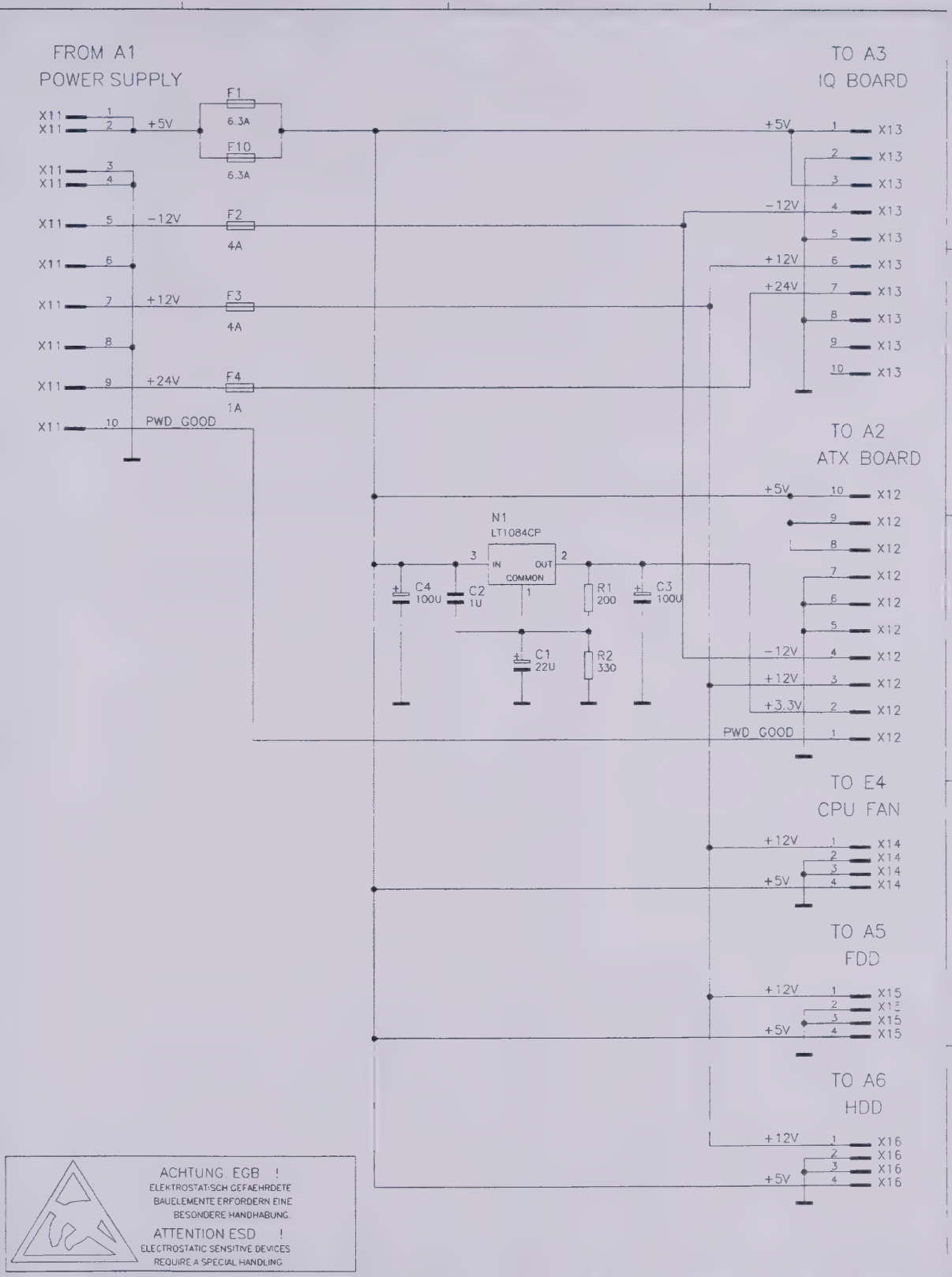
ROHDE&SCHWARZ

# Circuit Documents

**for Module**

## Power Board

**1110.2732.02**




FUER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 02.02 | | | | 1GPK | DATUM | NAME | BENENNUNG |
| | | | | BEARB | | SR | POWER_BOARD |
| | | | | GEPR. | | SR | POWER_BOARD |
| | | | | NORM | | | TOP/TOP.1 |
| | | | | PLOTT | 98-03-18 | BAUR_A | |
| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME | ROHDE&SCHWARZ | | | ZEICHN.-NR 1110.2732.01 S |
| | | | | ZU GERAET AMIO | | | REG.I V 1110.2003 ERSTE Z. 1110.2003.01 |

BLATT-NR. 1 -

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| . | XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS | | | | |
| C1 | CE 22UF +-20% 50V RM2,5 ELECTROLYTIC CAPACITOR | CE 0008.7533.00 | PHILIPS_CO | 2222 116 11229 | |
| C2 | CC 1UF+-10% 50V X7R 2220 CERAMIC CAPACITOR | CC 0520.6873.00 | KEMET | C2220C105K5RAC | |
| C3 | CE 100UF +-20% 25V RM2.5 ELECTROLYTIC CAPACITOR | CE 0008.7891.00 | PANASONIC | ECA-1EFG101I | |
| C4 | CE 100UF +-20% 25V RM2.5 ELECTROLYTIC CAPACITOR | CE 0008.7891.00 | PANASONIC | ECA-1EFG101I | |
| F1 | SS SCHMELZS.T 6,3A TR5-T FUSE | SS 1052.4410.00 | WICKMANN | 19374 T6.3A | |
| F2 | SS SCHMELZS.T 4A TR5-T FUSE TR5T 4A | SS 0815.8200.00 | WICKMANN | T4A / NR.19372 | |
| F3 | SS SCHMELZS.T 4A TR5-T FUSE TR5T 4A | SS 0815.8200.00 | WICKMANN | T4A / NR.19372 | |
| F4 | SS SCHMELZS.T 1A TR5-T FUSE TR5T 1A | SS 0815.8245.00 | WICKMANN | TR5-T 1A NR.19372K | |
| F10 | SS SCHMELZS.T 6,3A TR5-T FUSE | SS 1052.4410.00 | WICKMANN | 19374 T6.3A | |
| N1 | BO LT1084CP LOWDROP+VREGL IC VOLTAGE REGULATOR | 2028.4955.00 | LINEAR_TEC | LT1084CP | |
| R1 | RG 200R +-1% TK100 0603 SMD RESISTOR EIA0603 | 1097.6386.00 | PHILIPS_CO | RC 22 H | |
| R2 | RG 330R +-1% TK100 0603 SMD RESISTOR EIA0603 | 0009.6960.00 | PHILIPS_CO | RC 22 H | |
| X11 ..13 | FP STECKERLEISTE 10P.GER CONNECTOR 10POL. | FP 0815.7603.00 | J_S_T_DEUT | B10P-VH-B | |
| X14 ..16 | FP STIFTSOCKEL 4POL.GS CONNECTOR | 0344.9612.00 | AMP | P-N 3502 11-1 | |

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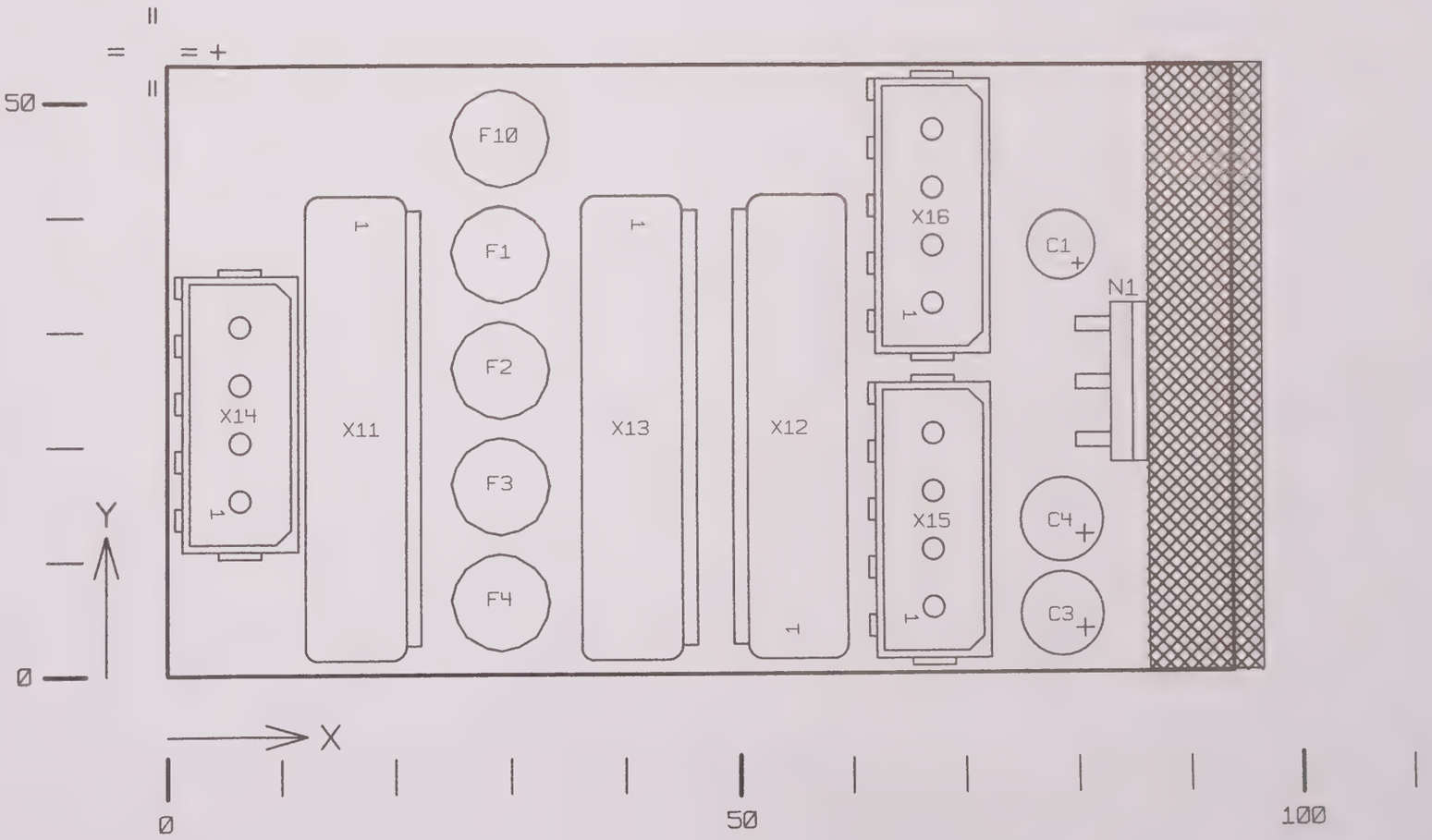
BEHALTEN WIR UNS ALLE RECHTE VOR




DARSTELLUNG SEITE B
VIEW ON SIDE B

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 02.01 | | | |

| 1GPK | DATUM | NAME |
|---|---|---|
| BEARB. | | SR |
| GEPR. | | SR |
| NORM | | |
| PLOTT | 97-12-01 | SCHWAIGE |

ROHDE&SCHWARZ
ZU GERAET AMIQ

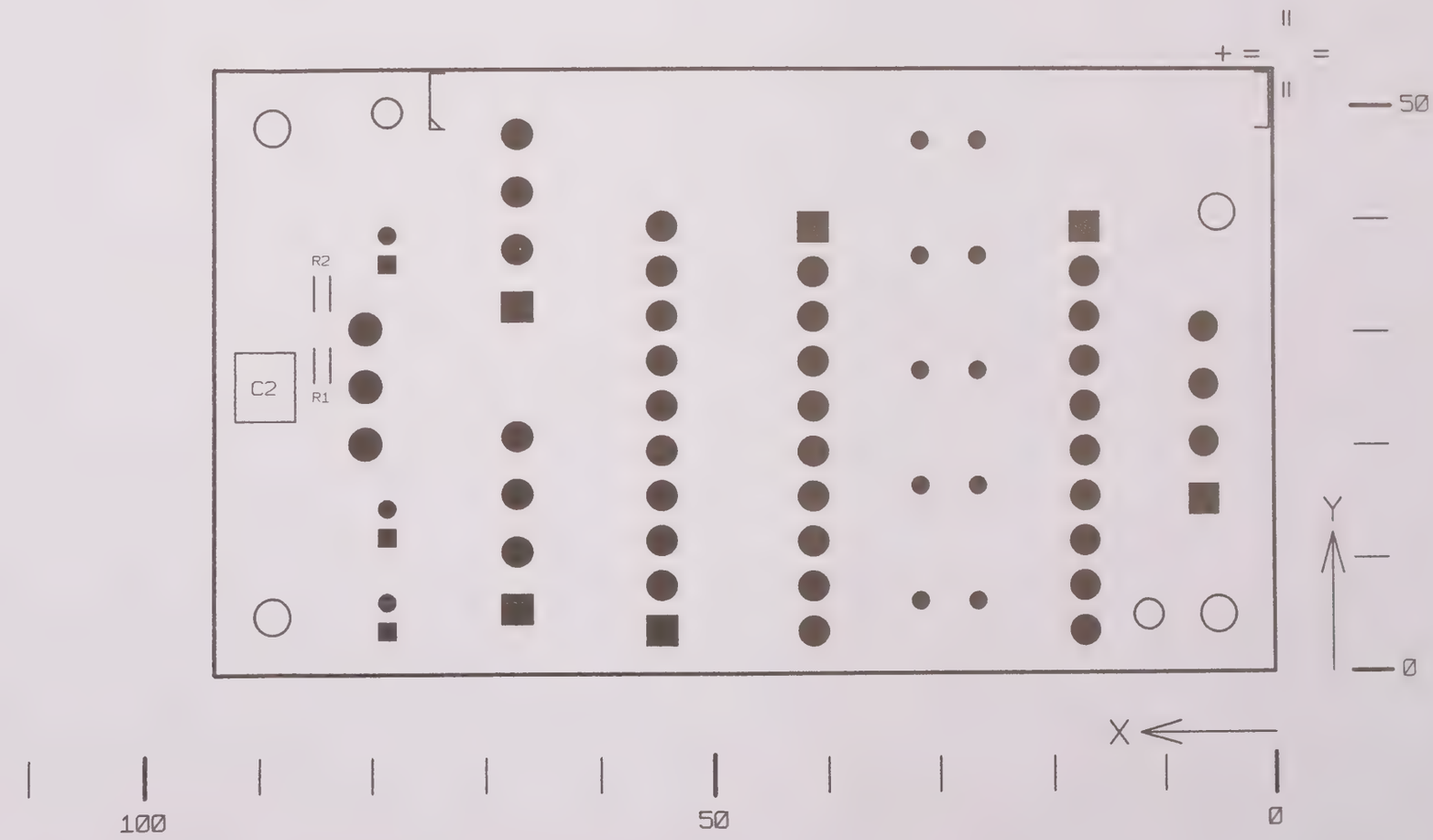
BENENNUNG
POWER_BOARD
POWER_BOARD

ZEICHN.-NR.
1110.2732.01 D

BLATT-NR. 1+
V. BL.

REG.I.v. 1110.2003
ERSTE Z. 1110.2003

UEBER DIESE UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR




DARSTELLUNG SEITE A
VIEW ON SIDE A

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 02.01 | | | |

| 1GPK | DATUM | NAME |
|---|---|---|
| BEARB. | | SR |
| GEPR. | | SR |
| NORM | | |
| PLOTT | 97-12-01 | SCHWAIGE |

ROHDE&SCHWARZ
ZU GERAET AMIQ

BENENNUNG
POWER_BOARD
POWER_BOARD

ZEICHN.-NR. 1110.2732.01 D
BLATT-NR. 2-
V. BL.
REG.I.v. 1110.2003
ERSTE Z. 1110.2003

ROHDE&SCHWARZ

# XY-Liste

# XY List

Erklärung der Spaltenbezeichnungen:

| | |
|---|---|
| el. Kennz. | Bauelement-Kennzeichen |
| Seite | Leiterplatten-Seite, auf der sich das Bauelement befindet |
| X/Y | Koordinaten (in Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt |
| Planq., Bl. | Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement |

Explanation of column designations:

| | |
|---|---|
| Part | Identification of instrument part |
| Side | Side of the PC board on which instrument part is positioned |
| X/Y | Coordinates (in units of millimeters) of the component on the PC board in reference to zero point |
| Sqr, Pg | Square and page of the diagram for the respective instrument part |

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| C1 | B | 79 | 36 | 3C | 1 |
| C2 | A | 90 | 22 | 2C | 1 |
| C3 | B | 79 | 4 | 3C | 1 |
| C4 | B | 79 | 12 | 2C | 1 |
| F1 | B | 27 | 37 | 2A | 1 |
| F2 | B | 27 | 27 | 2A | 1 |
| F3 | B | 27 | 17 | 2B | 1 |
| F4 | B | 27 | 6 | 2B | 1 |
| F10 | B | 27 | 47 | 2A | 1 |

| el. Kennz *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| N1 | B | 81 | 30 | 3C | 1 |
| R1 | A | 84 | 26 | 3C | 1 |
| R2 | A | 84 | 33 | 3C | 1 |
| X11 | B | 17 | 39 | 1A | 1 |
| X12 | B | 55 | 4 | 4C | 1 |
| X13 | B | 41 | 39 | 4A | 1 |
| X14 | B | 6 | 15 | 4D | 1 |
| X15 | B | 67 | 6 | 4D | 1 |
| X16 | B | 67 | 32 | 4E | 1 |

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|

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ROHDE & SCHWARZ

Benennung: ED POWER BOARD
*Designation:* POWER BOARD

Sprache: *Lang.:* de

Blatt: *Sh.:* 1 –

Aei: *C.I.:* 02.02

Typ: *Type:* AMIQ

Datum: *Date:* 98–03–18

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* **1110.2732.01 XY**

ROHDE&SCHWARZ

# Circuit Documents

for Module

## Differential Outputs

1110.3700.02

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| . | XX VARIANTENERKLAERUNG<br>IDENTIFICATION OF MODELS<br>VAR 02 = GRUNDAUSFUEHRUNG<br>MOD 02 = BASIC MODEL | | | | |
| A20 | ED I/Q DIFF.OUTPUT BOARD<br>I/Q DIFF.OUTPUT BOARD<br>HIERZU STROML.1110.3768 S<br>SEE CIRC.DIAGR.1110.3768 S | 1110.3768.02 | | | |
| W25 | DY OPTION POWER CABLE | 1122.2310.00 | | | |
| W111 | DV I/Q DIFF. CABLE<br>I/Q DIFF. CABLE | 1110.3797.00 | | | |
| W112 | DV I/Q DIFF. CABLE<br>I/Q DIFF. CABLE | 1110.3797.00 | | | |

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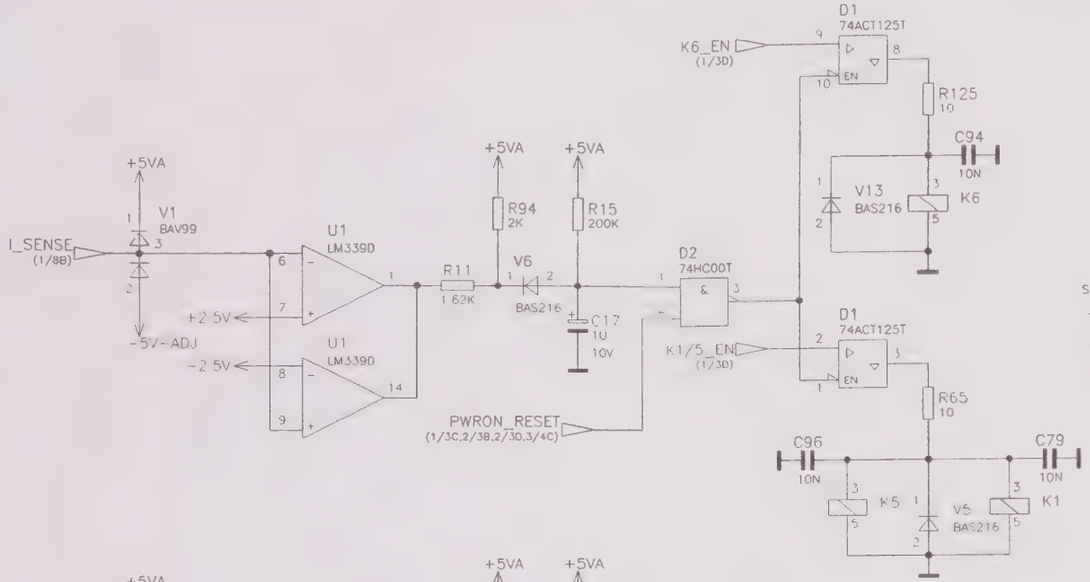
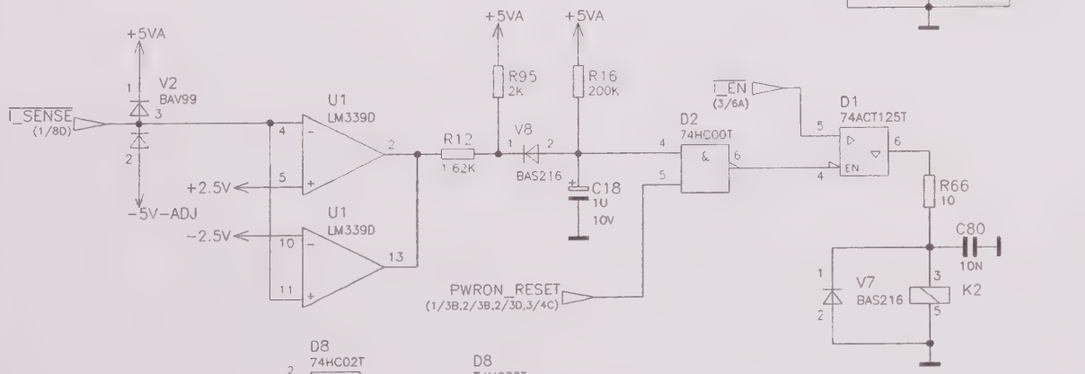
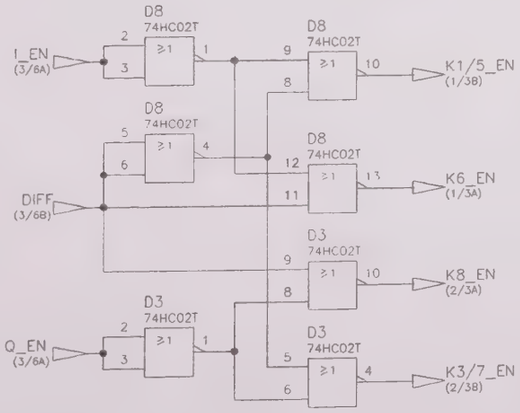
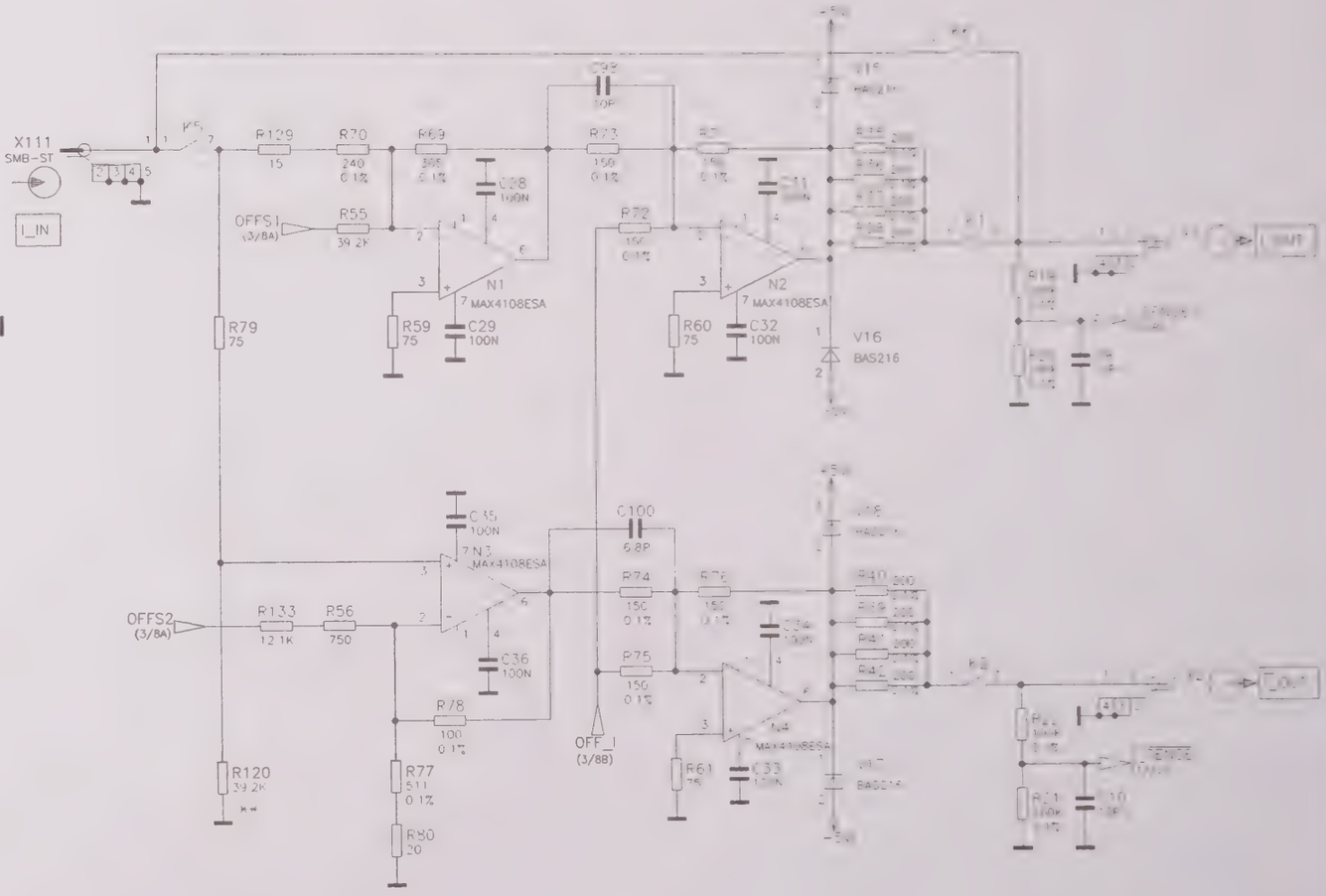
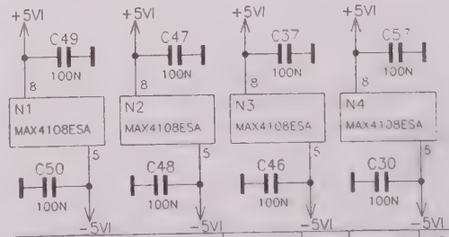
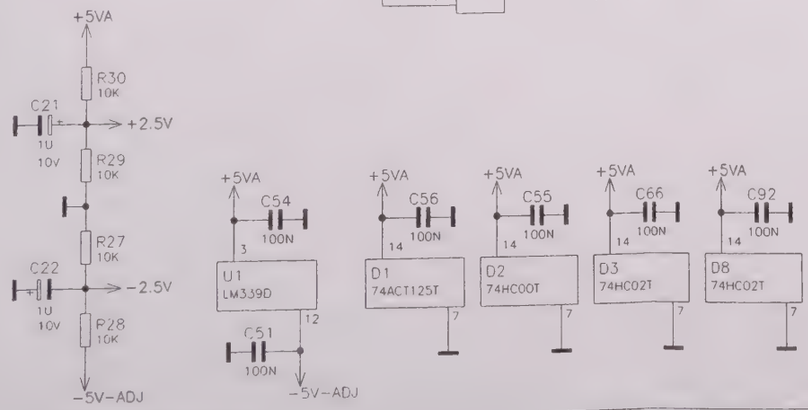


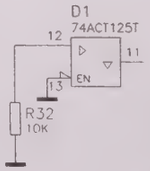




ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 02.02 | | | |

| | IGPK | DATUM | NAME |
|---|---|---|---|
| | BEARB | | HM |
| | GEPR. | | HM |
| | NORM | | |
| | PLOTT | 98-08-19 | HALLERME |

BENENNUNG: I/Q DIFF.OUTPUT BOARD

TOP/TOP.1

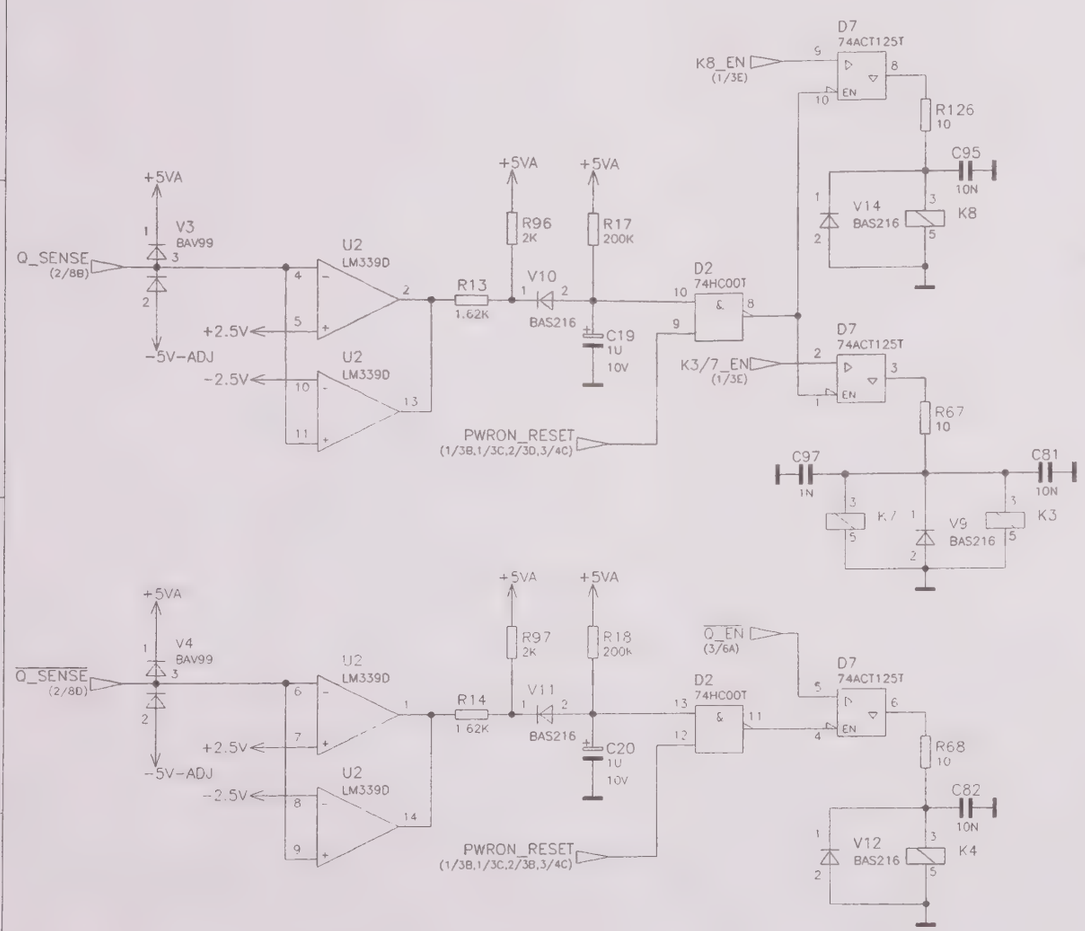
ROHDE&SCHWARZ

ZEICHN.-NR. 1110.3768.01 S

BLATT-NR 1 +

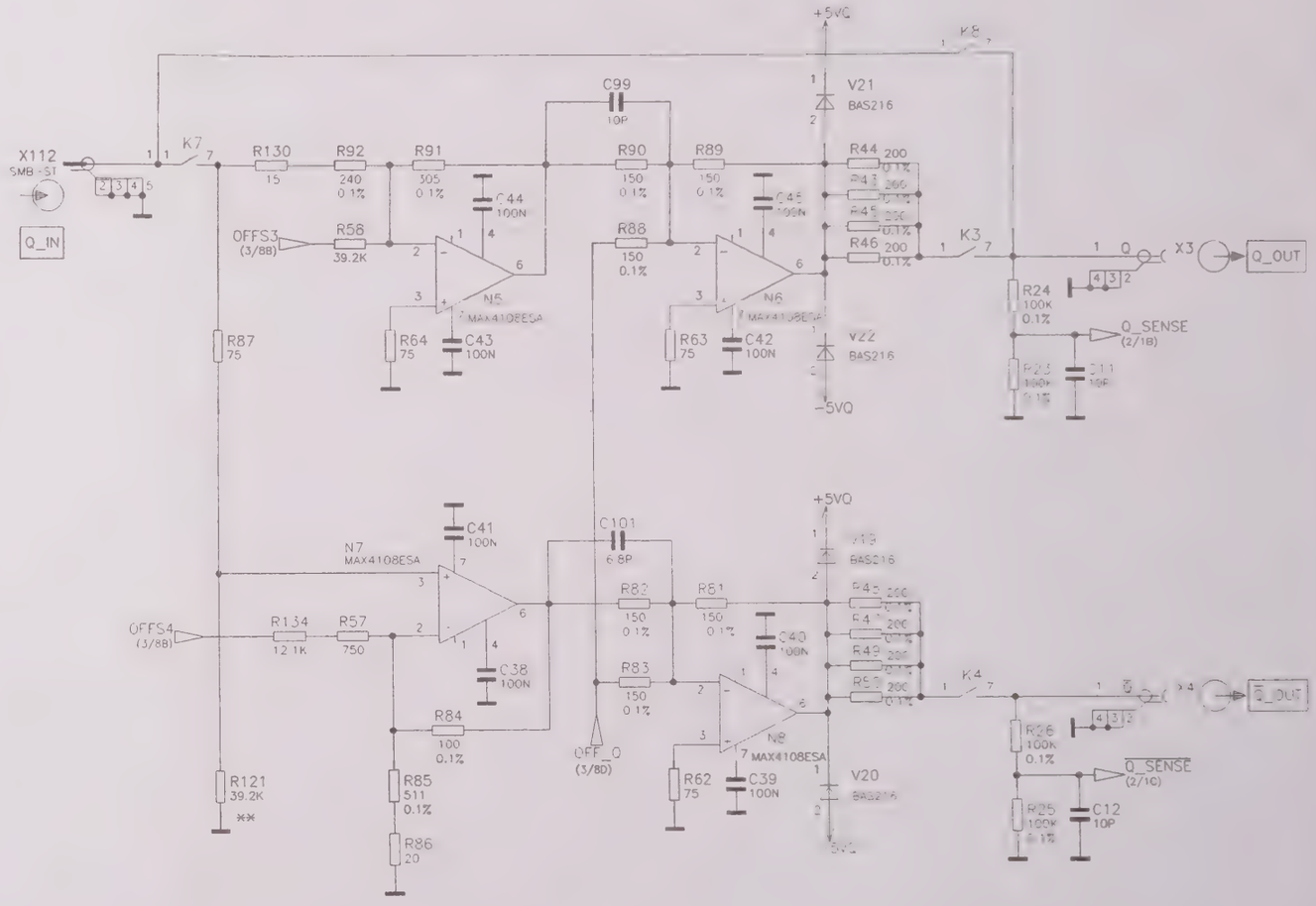
ZU GERAET AMIQ-B2 | REG.I.V. 1110.3700 | ERSTE Z. 1110.3700.01

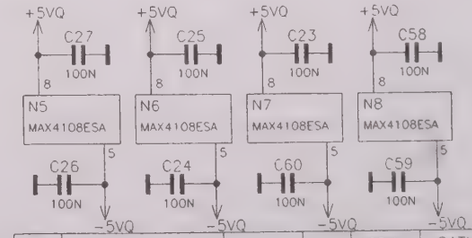

DIESE UNTERLAGE BLEIBT UNSER EIGENTUM. ALLE RECHTE VOR UNS, AUCH FUER DEN FALL VON SCHUTZRECHTSANMELDUNGEN. JEDE VERFUEGUNG, VERVIELFAELTIGUNG, WEITERGABE AN DRITTE ODER SONSTIGE NUTZUNG BEDARF UNSERER VORHERIGEN SCHRIFTLICHEN ZUSTIMMUNG. ZUWIDERHANDLUNGEN VERPFLICHTEN ZU SCHADENERSATZ. ALLE RECHTE VORBEHALTEN WIR UNS, AUCH FUER DEN FALL VON SCHUTZRECHTSANMELDUNGEN, JEDE VERFUEGUNG, VERVIELFAELTIGUNG, WEITERGABE AN DRITTE ODER SONSTIGE NUTZUNG BEDARF UNSERER VORHERIGEN SCHRIFTLICHEN ZUSTIMMUNG. ZUWIDERHANDLUNGEN VERPFLICHTEN ZU SCHADENERSATZ. ALLE RECHTE VORBEHALTEN

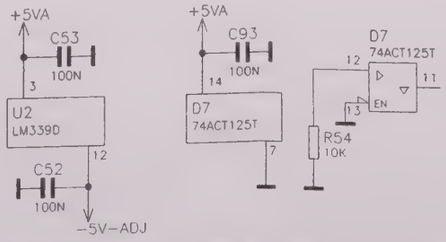









ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 02.02 | | | |

| | DATUM | NAME |
|---|---|---|
| 1GPK | | |
| BEARB | | HM |
| GEPR. | | HM |
| NORM | | |
| PLOTT | 98-08-19 | HALLERME |

BENENNUNG
I/Q DIFF.OUTPUT BOARD
TOP/TOP 2

ROHDE&SCHWARZ

ZEICHN.-NR. 1110.3768.01 S

BLATT-NR. 2 +

ZU GERAET AMIQ-B2 | REG.NR. 1110 3700 | ERSTE Z 1110 3700 01

FUER DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR

FOLIEN DIESER ART UNSERES HAUSES
BEHALTEN WIR UNS ALLE RECHTE VOR

N14 LM78L05ACM
R127 39 1W
C83 4.7U 25V
C84 4.7U 25V
+5V-ADJ

N30 LT1117CS
+12VA
R107 5.6 1W
R124 5.6 1W
C5 10U 25V
R33 301
R9 100
C14 47U 10V
+5VI
V27 SM6T6V8A

N31 LT1117CS
R122 5.6 1W
R123 5.6 1W
C6 10U 25V
R34 301
R10 100
C15 47U 10V
+5VQ
V29 SM6T6V8A

N13 LM79L05ACD
R128 39 1W
C85 4.7U 25V
C86 4.7U 25V
-5V-ADJ

N15 LT1175CS8
-12VA
R100 5.6 1W
R101 5.6 1W
R116 0
R117 0
C87 10U 25V
R104 150K
R98 47K
C89 47U 10V
-5VI
V28 SM6T6V8A

N16 LT1175CS8
R102 5.6 1W
R103 5.6 1W
R119 0
R118 0
C88 10U 25V
R105 150K
R99 47K
C90 47U 10V
-5VQ
V30 SM6T6V8A

+5VA
C67 100N
D4 74HCT4094T

+5VA
C65 100N
C16 1000U 35V
L2 625R(Z)

X25 connector:
SER1_CLK — R51 100 — C74 1P
STROBE1 — R52 100 — C76 1P
DATA1_OUT — R53 100 — C91 1P
PWRON_RESET (1/3B,1/3C,2/3B,2/30)
OPT_ID0 — R6 100
OPT_ID1 — R7 100 N.F. — +5VA
L3 625R(Z) — +12VA
L1 625R(Z)

R93 1K — C3 10U 25V — N12 OP97
C13 10P
R5 100
R8 100
C8 10U 25V
C70 100N

D4 74HCT4094T
R106 10K
I_EN (1/2D)
I_EN (1/3C)
Q_EN (1/2E)
Q_EN (2/3C)
DIFF (1/2D)

D3 74HC02T

+5V-ADJ
D5 DAC8143
VREF RFB \CLR \LD1 \LD2 STB1 IOUT1 STB2 \STB3 IOUT2 STB4 SRI SRO
C1 12P
N10 OP297GS

D6 DAC8143
C2 12P
N11 OP297GS

N9 OP297GS
R31 5.11K 0.1%
R113 20K 0.1%
R112 20K 0.1%
R4 5K
R3 5K
R2 5K
R1 5K
OFFS1 (1/5B)
OFFS2 (1/5C)
OFFS3 (2/5B)
OFFS4 (2/5C)

+5VI
R109 20K 0.1%
R108 20K 0.1%
V25 BC850B
P10
+-2,5V
C102 100N
R114 10K 0.1%
R131 1K
OFF_I (1/6C)
V23 BC860B
-5VI

+5VQ
P11
+-2,5V
R110 20K 0.1%
R111 20K 0.1%
V26 BC850B
C103 100N
R115 10K 0.1%
R132 1K
OFF_Q (2/6C)
V24 BC860B
-5VQ

+5V-ADJ
C68 100N
N12 OP97
C69 100N
-5V-ADJ

+5V-ADJ
C73 100N
D5 DAC8143

+5V-ADJ
C75 100N
D6 DAC8143

+5V-ADJ
C64 100N
N9 OP297GS
C63 100N
-5V-ADJ

+5V-ADJ
C77 100N
N10 OP297GS
C78 100N
-5V-ADJ

+5V-ADJ
C62 100N
N11 OP297GS
C61 100N
-5V-ADJ

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 02.02 | | | |

| | DATUM | NAME |
|---|---|---|
| 1GPK | | |
| BEARB. | | HM |
| GEPR | | HM |
| NORM | | |
| PLOTT | 98-08-19 | HALLERME |

ROHDE&SCHWARZ
ZU GERAET AMIQ-B2

BENENNUNG
I/Q DIFF.OUTPUT BOARD
TOP/TOP.3

ZEICHN.-NR. 1110.3768.01 S
BLATT-NR. 3 -
REG.I.V. 1110.3700
ERSTE Z 1110.3700 01

| Kennz. Comp No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| . | XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS | | | | |
| C1 | CC 12PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8256.00 | MURATA | GRM39COG***F50ZPT | |
| C2 | CC 12PF+-1% 50VNPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8256.00 | MURATA | GRM39COG***F50ZPT | |
| C3 ..8 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | SPRAGUE | 293D 106 X9 025 D2W | |
| C9 ..13 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39COG***B50ZPT | |
| C14 | CE 47UF 10% 10V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| C15 | CE 47UF 10% 10V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| C16 | CE 100UF +-20% 35V RM5 ELECTROLYTIC CAPACITOR | 0008.7510.00 | PHILIPS_CO | 2222 116 90042 | |
| C17 ..22 | CE 1UF 10% 10V 1206 TANTALUM CHIP CAPACITOR | CE 0007.7252.00 | SPRAGUE | 293D 105 X9 010 D2T | |
| C23 ..73 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C74 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39COG***B50ZPT | |
| C75 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C76 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39COG***B50ZPT | |
| C77 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C78 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C79 ..82 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C83 ..86 | CE 4,7UF +-10% 25V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7230.00 | SPRAGUE | 293D475X9035D2W | |
| C87 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | SPRAGUE | 293D 106 X9 025 D2W | |
| C88 | CE 10UF +-10% 25V 7343 TANTALUM SMD-CAPACITOR | CE 0007.7246.00 | SPRAGUE | 293D 106 X9 025 D2W | |
| C89 | CE 47UF 10% 10V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| C90 | CE 47UF 10% 10V 7343 TANTALUM CHIP CAPACITOR | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| C91 | CC 1,0PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8304.00 | MURATA | GRM39COG***B50ZPT | |
| C92 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C93 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C94 ..96 | CC 10NF+-10% 50VHDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4844.00 | MURATA | GRM39X7R***K50C500 | |
| C97 | CC 1,0NF+-10%50V HDK 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4938.00 | MURATA | GRM39X7R***K50C500 | |
| C98 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39COG***B50ZPT | |
| C99 | CC 10P+-0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.4567.00 | MURATA | GRM39COG***B50ZPT | |
| C100 | CC 6,8PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8262.00 | MURATA | GRM39COG***B50ZPT | |
| C101 | CC 6,8PF0,1PF50V NPO 0603 SMD-CERAMIC-CAPACITOR | CC 0009.8262.00 | MURATA | GRM39COG***B50ZPT | |
| C102 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| C103 | CC 100NF+-10%16V HDK 0603 CERAMIC CHIP CAPACITOR | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| D1 | BL 74ACT125SC 4XBUFFER 3S IC QUAD BUFFER 3-STATE | BL 2013.8620.00 | FAIRCHILD | 74ACT125SC(X) | |
| D2 | BL PC74HC00T 4X2IN.NAND QUAD 2INPUT NAND GATE | BL 0007.3463.00 | PHILIPS_SE | (PC)74HC00D(T) | |
| D3 | BL PC74HC02T 4X2IN.NORG QUAD 2INPUT NOR GATE | BL 0007.3470.00 | PHILIPS_SE | (PC)74HC02(D/T) | |
| D4 | BL PC74HCT4094T 8ST.SHREG 8-STAGE SHIFT&STORE REG. | 0007.6885.00 | PHILIPS | (PC)74HCT4094(D) | |
| D5 | BJ DAC8143FS 1X12B-DAC 12B SERIAL D/A-CONVERTER | 1012.9510.00 | PMI | DAC8143FS | |
| D6 | BJ DAC8143FS 1X12B-DAC 12B SERIAL D/A-CONVERTER | 1012.9510.00 | PMI | DAC8143FS | |



Für diese Unterlage behalten wir uns alle Rechte vor.

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| D7 | BL 74ACT125SC 4XBUFFER 3S IC QUAD BUFFER 3-STATE | BL 2013.8620.00 | FAIRCHILD | 74ACT125SC(X) | |
| D8 | BL PC74HC02T 4X2IN.NORG QUAD 2INPUT NOR GATE | BL 0007.3470.00 | PHILIPS_SE | (PC)74HC02(D/T) | |
| K1 | SR 5V 500 OHM 1X1 SIL | 1012.9604.00 | HAMLIN | HE3621A0500 | |
| ..8 | RELAY 5V SIL | | | | |
| L1 | LD SMD-DR.Z=625 OHM 50MHZ | 1078.3240.00 | PHILIPS_CO | 4330 030 41663 | |
| ..3 | CHOKE | | | | |
| N1 | BO MAX4108ESA OPAMP | 1110.3139.00 | MAXIM | MAX4108ESA | |
| ..8 | 400MHZ OPAMP | | | | |
| N9 | BO OP297GS 2X PREC OPAMP | 6071.9467.00 | ANALOG_DEV | OP297GS | |
| ..11 | DUAL LOW BIAS PREC OPAMP | | | | |
| N12 | BO OP97FS LP PREC OPAMP | 1036.4390.00 | PMI | OP97F(S) | |
| | LOW POWER OPAMP | | | | |
| N13 | BO 79L05ACM-5V5%0A1VREGL | 0851.6703.00 | NSC | LM79L05ACM(X) | |
| | VOLTAGE REGULATOR 5VDC | | | | |
| N14 | BO LM78L05ACM+5V5%0A1VREG | 0351.3451.00 | NSC | LM78L05ACM | |
| | VOLTAGE REGULATOR | | | | |
| N15 | BO LT1175CS8 LOWD.-VREGL | 1110.3022.00 | LINEAR_TEC | LT1175CS8 | |
| | IC VOLTAGE REGULATOR | | | | |
| N16 | BO LT1175CS8 LOWD.-VREGL | 1110.3022.00 | LINEAR_TEC | LT1175CS8 | |
| | IC VOLTAGE REGULATOR | | | | |
| N30 | BO LT1117CSTLOWDROP+VREGL | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| | VOLTAGE REGULATOR | | | | |
| N31 | BO LT1117CSTLOWDROP+VREGL | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| | VOLTAGE REGULATOR | | | | |
| P10 | VL EINPRESSSTIFT 5,6 | VL 0010.7250.00 | AMP | 1-928776-5 | |
| | PIN | | | | |
| P11 | VL EINPRESSSTIFT 5,6 | VL 0010.7250.00 | AMP | 1-928776-5 | |
| | PIN | | | | |
| R1 | RS 0,3W 5KOHM+-10%CERMET | RS 0006.6698.00 | BOURNS | 3296W-001-502 | |
| ..4 | TRIMMING POTENTIOMETER | | | | |
| R5 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R6 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R7 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R8 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| ..10 | SMD RESISTOR EIA0603 | | | | |
| R11 | RG 1,62KOHM+-1%TK100 1206 | RG 0006.9997.00 | ROEDERSTEI | D25 | |
| ..14 | CHIP RESISTOR | | | | |
| R15 | RG 200K +-1% TK100 0603 | 1093.6200.00 | PHILIPS_CO | RC 22 H | |
| ..18 | SMD RESISTOR EIA0603 | | | | |
| R19 | RG 100,0K0+-0,1%TK25 1206 | 0010.0655.00 | PHILIPS_CO | MPC 01 | |
| ..26 | SMD-RESISTOR EIA1206 | | | | |
| R27 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..30 | SMD RESISTOR EIA0603 | | | | |
| R31 | RG 5,11K0H+-0,1%TK25 1206 | 0009.8185.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R32 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R33 | RG 301R +-1%TK100 0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R34 | RG 301R +-1%TK100 0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R35 | RG 200 OHM+-0,1%TK25 1206 | 1110.3074.00 | PHILIPS_CO | MPC 01 | |
| ..50 | CHIP RESISTOR | | | | |
| R51 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| ..53 | SMD RESISTOR EIA0603 | | | | |
| R54 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R55 | RG 39K2 +-1% TK100 0603 | 0010.9823.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R56 | RG 750R +-1% TK100 0603 | 1097.6492.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R57 | RG 750R +-1% TK100 0603 | 1097.6492.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R58 | RG 39K2 +-1% TK100 0603 | 0010.9823.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R59 | RG 75R0 +-1%TK200 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| ..64 | SMD RESISTOR | | | | |

Für diese Unterlage behalten wir uns alle Rechte vor.

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| R65 | RG 10R +-1% TK100 0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| ..68 | SMD RESISTOR EIA0603 | | | | |
| R69 | RG 305 OHM+-0,1%TK25 1206 | 0009.8104.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R70 | RG 240 OHM+-0,1%TK25 1206 | 2035.3780.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R71 | RG 150 OHM+-0,1%TK25 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| ..76 | SMD-RESISTOR EIA1206 | | | | |
| R77 | RG 511 OHM+-0,1%TK25 1206 | 0009.8810.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R78 | RG 100 OHM+-0,1%TK25 1206 | 0009.8033.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR | | | | |
| R79 | RG 75R0 +-1%TK200 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR | | | | |
| R80 | RG 20R +-1% TK100 0603 | 0048.5525.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R81 | RG 150 OHM+-0,1%TK25 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| ..83 | SMD-RESISTOR EIA1206 | | | | |
| R84 | RG 100 OHM+-0,1%TK25 1206 | 0009.8033.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR | | | | |
| R85 | RG 511 OHM+-0,1%TK25 1206 | 0009.8810.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R86 | RG 20R +-1% TK100 0603 | 0048.5525.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R87 | RG 75R0 +-1%TK200 0603 | 0048.4906.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR | | | | |
| R88 | RG 150 OHM+-0,1%TK25 1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| ..90 | SMD-RESISTOR EIA1206 | | | | |
| R91 | RG 305 OHM+-0,1%TK25 1206 | 0009.8104.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R92 | RG 240 OHM+-0,1%TK25 1206 | 2035.3780.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R93 | RG 1KO +-1% TK100 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R94 | RG 2KO +-1% TK100 0603 | 1097.6328.00 | PHILIPS_CO | RC 22 H | |
| ..97 | SMD RESISTOR EIA0603 | | | | |
| R98 | RG 47K +-1% TK100 0603 | 0009.7072.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R99 | RG 47K +-1% TK100 0603 | 0009.7072.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R100 | RG 5R6 1% 1W 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| ..103 | SMD RESISTOR | | | | |
| R104 | RG 150K +-1% TK100 0603 | 0009.7095.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R105 | RG 150K +-1% TK100 0603 | 0009.7095.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R106 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R107 | RG 5R6 1% 1W 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| | SMD RESISTOR | | | | |
| R108 | RG 20KOH +-0,1% TK25 1206 | 0009.7643.00 | PHILIPS_CO | MPC 01 | |
| ..113 | SMD-RESISTOR | | | | |
| R114 | RG 10,0KOH+-0,1%TK25 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR | | | | |
| R115 | RG 10,0KOH+-0,1%TK25 1206 | 0009.7666.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR | | | | |
| R116 | RG 0-OHM WIDERSTAND 0603 | 0009.9369.00 | PHILIPS_CO | RC21 0 OHM | |
| ..119 | SMD RESISTOR EIA0603 | | | | |
| R122 | RG 5R6 1% 1W 1218 | 0048.5077.00 | PHILIPS_CO | PRC201-5R6 1% TK200 | |
| ..124 | SMD RESISTOR | | | | |
| R125 | RG 10R +-1% TK100 0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R126 | RG 10R +-1% TK100 0603 | RG 0009.5328.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R127 | RG 39R 1% 1W 1218 | 1104.2786.00 | PHILIPS_CO | PRC201-39R 1% TK100 | |
| | SMD-RESISTOR | | | | |
| R128 | RG 39R 1% 1W 1218 | 1104.2786.00 | PHILIPS_CO | PRC201-39R 1% TK100 | |
| | SMD-RESISTOR | | | | |
| R129 | RG 15R +-1% TK100 0603 | 0009.6899.00 | DRALORIC | CR 0603 | |
| | SMD RESISTOR EIA0603 | | | | |
| R130 | RG 15R +-1% TK100 0603 | 0009.6899.00 | DRALORIC | CR 0603 | |
| | SMD RESISTOR EIA0603 | | | | |
| R131 | RG 1KO +-1% TK100 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R132 | RG 1KO +-1% TK100 0603 | RG 0009.5340.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R133 | RG 12K1 +-1% TK100 0603 | 0010.8462.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| R134 | RG 12K1 +-1% TK100 0603 SMD RESISTOR EIA0603 | 0010.8462.00 | PHILIPS_CO | RC 22 H | |
| U1 | BO LM339D 4X COMPAR COMPARATOR | 0007.3757.00 | SIGNETICS | LM-339D | |
| U2 | BO LM339D 4X COMPAR COMPARATOR | 0007.3757.00 | SIGNETICS | LM-339D | |
| V1 ..4 | AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE | AD 0911.0092.00 | VALVO | BAV99 | |
| V5 ..22 | AD BAS216 75V UDI HIGHSPEED SWITCHING DIODE | 0010.9346.00 | PHILIPS_SE | BAS216 | |
| V23 | AK BC860B P 45V 150MA TRANSISTOR | AK 0007.7975.00 | MOTOROLA | BC860B | |
| V24 | AK BC860B P 45V 150MA TRANSISTOR | AK 0007.7975.00 | MOTOROLA | BC860B | |
| V25 | AK BC850B N 45V 100MA TRANSISTOR | AK 0007.7969.00 | VALVO | BC850B | |
| V26 | AK BC850B N 45V 100MA TRANSISTOR | AK 0007.7969.00 | VALVO | BC850B | |
| V27 ..30 | AE SM6T6V8A 6,8V SUPPR SUPPRESSOR DIODE | 0009.8733.00 | SGS-THOMSO | SM6T6V8A | |
| X1 ..4 | FJ WINKELEINBAUBUCHSE BNC ANGLE BNC | FJ 1051.4380.00 | AMP | 227677-1 +2X1-329631 | |
| X25 | FP STECKERLEISTE 20P.GER CONNECTOR 20P | FP 0351.3468.00 | SIEMENS | V23535-A2200-A202 | |
| X111 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |
| X112 | FJ EINBAUSTECKER F.GS SMB PLUG | FJ 0063.5168.00 | ROSENBERGE | 59S106-400-D3 | |

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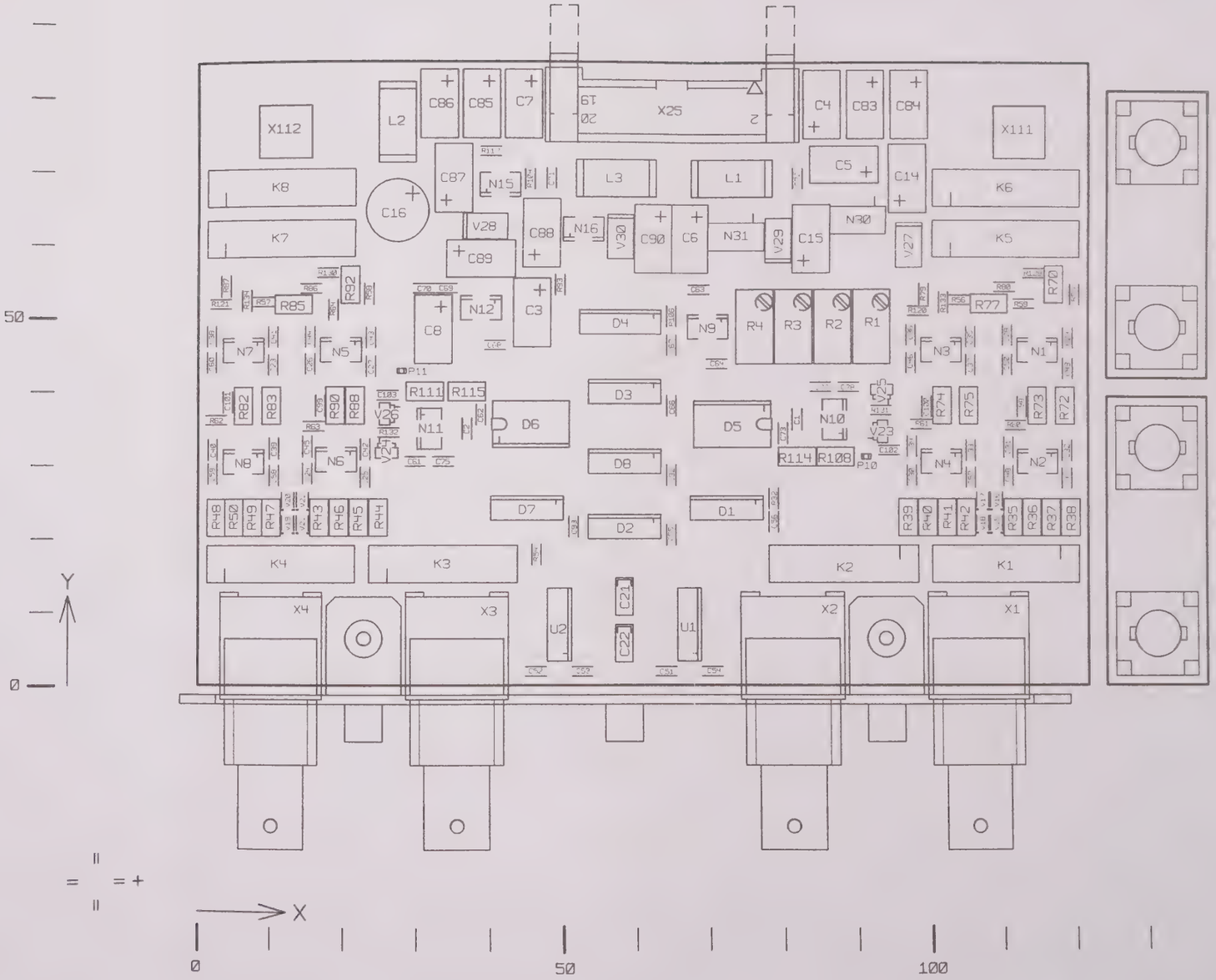
BEHALTEN WIR UNS ALLE RECHTE VOR




DARSTELLUNG SEITE B
VIEW ON SIDE B

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING.

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 02.00 | | | |

| | DATUM | NAME |
|---|---|---|
| 1GPK | | |
| BEARB. | | HM |
| GEPR. | | HM |
| NORM | | |
| PLOTT | 98-07-13 | HALLERME |

ROHDE&SCHWARZ
ZU GERAET AM10-B2

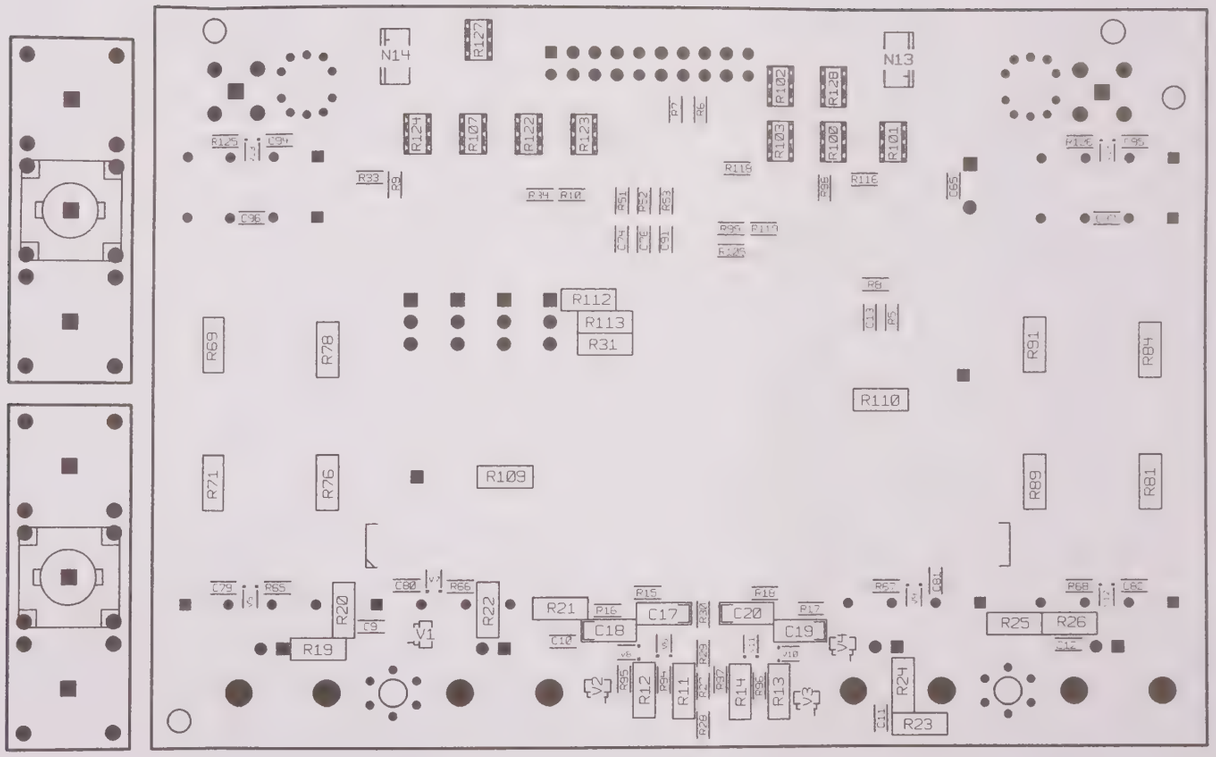
BENENNUNG
I/Q DIFF. OUTPUT BOARD

ZEICHN.-NR.
1110.3768.01 D

BLATT-NR. 1+

REG.I.V. 1110.3700 ERSTE V. 1110.3700

NACHDRUCK UNTERLAGE
BEHALTEN WIR UNS ALLE RECHTE VOR



DARSTELLUNG SEITE A
VIEW ON SIDE A

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE 5A.

FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

| AEND. IND. | AENDERUNGS-MITTEILUNG | DATUM | NAME |
|---|---|---|---|
| 02.00 | | | |

| | GPK | DATUM | NAME |
|---|---|---|---|
| BEARB. | | | HM |
| GEPR. | | | HM |
| NORM | | | |
| PLOTT | 98-07-13 | | HALLERME |

ROHDE&SCHWARZ
ZU GERAET AMIQ-B2

BENENNUNG
I/Q DIFF.OUTPUT BOARD

ZEICHN.-NR.
1110.3768.01 D

BLATT-NR. 2
V. BL.

REG.I.V. 1110.3700 | ERSTE Z. 1110.3700

ROHDE&SCHWARZ

# XY-Liste

# XY List

Erklärung der Spaltenbezeichnungen:

| | |
|---|---|
| el. Kennz. | Bauelement-Kennzeichen |
| Seite | Leiterplatten-Seite, auf der sich das Bauelement befindet |
| X/Y | Koordinaten (in Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt |
| Planq., Bl. | Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement |

Explanation of column designations:

| | |
|---|---|
| Part | Identification of instrument part |
| Side | Side of the PC board on which instrument part is positioned |
| X/Y | Coordinates (in units of millimeters) of the component on the PC board in reference to zero point |
| Sqr, Pg | Square and page of the diagram for the respective instrument part |

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| C1 | B | 82 | 35 | 6B | 3 |
| C2 | B | 37 | 36 | 6D | 3 |
| C3 | B | 46 | 54 | 5C | 3 |
| C4 | B | 85 | 76 | 4D | 3 |
| C5 | B | 92 | 71 | 2A | 3 |
| C6 | B | 67 | 64 | 2B | 3 |
| C7 | B | 44 | 83 | 4D | 3 |
| C8 | B | 32 | 52 | 5D | 3 |
| C9 | A | 97 | 14 | 8B | 1 |
| C10 | A | 76 | 12 | 8D | 1 |
| C11 | A | 37 | 2 | 8B | 2 |
| C12 | A | 17 | 12 | 8D | 2 |
| C13 | A | 39 | 50 | 5C | 3 |
| C14 | B | 97 | 66 | 3B | 3 |
| C15 | B | 84 | 58 | 3B | 3 |
| C16 | B | 27 | 67 | 4B | 3 |
| C17 | A | 61 | 15 | 3B | 1 |
| C18 | A | 71 | 13 | 3C | 1 |
| C19 | A | 45 | 13 | 3B | 2 |
| C20 | A | 55 | 15 | 3C | 2 |
| C21 | B | 58 | 13 | 1E | 1 |
| C22 | B | 58 | 7 | 1F | 1 |
| C23 | B | 10 | 43 | 6E | 2 |
| C24 | B | 15 | 30 | 5E | 2 |
| C25 | B | 23 | 28 | 5E | 2 |
| C26 | B | 15 | 43 | 5E | 2 |
| C27 | B | 24 | 43 | 5E | 2 |
| C28 | B | 111 | 48 | 6B | 1 |
| C29 | B | 119 | 47 | 6B | 1 |
| C30 | B | 98 | 28 | 6E | 1 |
| C31 | B | 111 | 33 | 7B | 1 |
| C32 | B | 119 | 31 | 7B | 1 |
| C33 | B | 106 | 31 | 7D | 1 |
| C34 | B | 98 | 33 | 7C | 1 |
| C35 | B | 106 | 48 | 6C | 1 |
| C36 | B | 97 | 47 | 6C | 1 |
| C37 | B | 106 | 43 | 6E | 1 |
| C38 | B | 2 | 47 | 6C | 2 |
| C39 | B | 11 | 32 | 6D | 2 |
| C40 | B | 2 | 33 | 7C | 2 |
| C41 | B | 10 | 48 | 6C | 2 |
| C42 | B | 23 | 31 | 6B | 2 |
| C43 | B | 24 | 47 | 6B | 2 |
| C44 | B | 15 | 48 | 6B | 2 |
| C45 | B | 15 | 33 | 7B | 2 |
| C46 | B | 97 | 43 | 6E | 1 |
| C47 | B | 119 | 27 | 5E | 1 |
| C48 | B | 111 | 28 | 5E | 1 |
| C49 | B | 119 | 42 | 5E | 1 |
| C50 | B | 111 | 43 | 5E | 1 |
| C51 | B | 65 | 2 | 2F | 1 |
| C52 | B | 47 | 2 | 2F | 2 |
| C53 | B | 53 | 2 | 2E | 2 |
| C54 | B | 71 | 2 | 2E | 1 |
| C55 | B | 65 | 20 | 3E | 1 |
| C56 | B | 79 | 23 | 2E | 1 |
| C57 | B | 106 | 28 | 6E | 1 |
| C58 | B | 11 | 28 | 6E | 2 |
| C59 | B | 2 | 28 | 6E | 2 |
| C60 | B | 2 | 43 | 6E | 2 |
| C61 | B | 29 | 30 | 8E | 3 |
| C62 | B | 39 | 38 | 8E | 3 |
| C63 | B | 69 | 54 | 7E | 3 |
| C64 | B | 72 | 44 | 7E | 3 |
| C65 | A | 29 | 64 | 4B | 3 |
| C66 | B | 65 | 39 | 3E | 1 |
| C67 | B | 65 | 46 | 2F | 3 |
| C68 | B | 40 | 46 | 5E | 3 |
| C69 | B | 33 | 54 | 5E | 3 |
| C70 | B | 32 | 54 | 5D | 3 |
| C71 | B | 48 | 70 | 4D | 3 |
| C72 | B | 82 | 69 | 4D | 3 |
| C73 | B | 80 | 34 | 6E | 3 |
| C74 | A | 68 | 59 | 5B | 3 |
| C75 | B | 33 | 30 | 7E | 3 |
| C76 | A | 65 | 59 | 5C | 3 |
| C77 | B | 86 | 41 | 8E | 3 |
| C78 | B | 90 | 41 | 8E | 3 |
| C79 | A | 113 | 18 | 4B | 1 |
| C80 | A | 92 | 19 | 4C | 1 |
| C81 | A | 31 | 18 | 4B | 2 |
| C82 | A | 9 | 18 | 4C | 2 |
| C83 | B | 91 | 83 | 2A | 3 |
| C84 | B | 97 | 83 | 3A | 3 |
| C85 | B | 39 | 83 | 2C | 3 |
| C86 | B | 33 | 83 | 3C | 3 |
| C87 | B | 35 | 66 | 2D | 3 |
| C88 | B | 47 | 58 | 2E | 3 |
| C89 | B | 35 | 58 | 3D | 3 |
| C90 | B | 62 | 64 | 3E | 3 |
| C91 | A | 63 | 59 | 5C | 3 |
| C92 | B | 65 | 29 | 3E | 1 |
| C93 | B | 51 | 22 | 3E | 2 |
| C94 | A | 108 | 70 | 4A | 1 |
| C95 | A | 9 | 70 | 4A | 2 |
| C96 | A | 111 | 61 | 3B | 1 |
| C97 | A | 12 | 61 | 3B | 2 |
| C98 | B | 113 | 39 | 6A | 1 |
| C99 | B | 17 | 39 | 6A | 2 |
| C100 | B | 100 | 39 | 6C | 1 |
| C101 | B | 4 | 39 | 6C | 2 |
| C102 | B | 94 | 32 | 8B | 3 |
| C103 | B | 27 | 39 | 8C | 3 |
| D1 | B | 76 | 27 | 2F | 1 |
| D1 | B | 76 | 27 | 3A | 1 |
| D1 | B | 76 | 27 | 3B | 1 |
| D1 | B | 76 | 27 | 3C | 1 |
| D1 | B | 76 | 27 | 4E | 1 |
| D2 | B | 62 | 24 | 2F | 1 |
| D2 | B | 62 | 24 | 3B | 1 |
| D2 | B | 62 | 24 | 3C | 1 |
| D2 | B | 62 | 24 | 3B | 2 |
| D2 | B | 62 | 24 | 3C | 2 |
| D3 | B | 62 | 43 | 2D | 1 |
| D3 | B | 62 | 43 | 2E | 1 |
| D3 | B | 62 | 43 | 2E | 1 |
| D3 | B | 62 | 43 | 3F | 1 |
| D3 | B | 62 | 43 | 5B | 3 |
| D4 | B | 62 | 52 | 2F | 3 |
| D4 | B | 62 | 52 | 5A | 3 |
| D5 | B | 77 | 40 | 6B | 3 |
| D5 | B | 77 | 40 | 6E | 3 |
| D6 | B | 41 | 31 | 6D | 3 |
| D6 | B | 41 | 31 | 7E | 3 |
| D7 | B | 49 | 27 | 3A | 2 |
| D7 | B | 49 | 27 | 3B | 2 |
| D7 | B | 49 | 27 | 3C | 2 |
| D7 | B | 49 | 27 | 3E | 2 |
| D7 | B | 49 | 27 | 3F | 2 |
| D8 | B | 62 | 33 | 2D | 1 |
| D8 | B | 62 | 33 | 2D | 1 |
| D8 | B | 62 | 33 | 2D | 1 |
| D8 | B | 62 | 33 | 2D | 1 |
| D8 | B | 62 | 33 | 3F | 1 |
| K1 | B | 118 | 17 | 4B | 1 |
| K1 | B | 118 | 17 | 7B | 1 |
| K2 | B | 96 | 17 | 4C | 1 |
| K2 | B | 96 | 17 | 7C | 1 |
| K3 | B | 26 | 17 | 4B | 2 |
| K3 | B | 26 | 17 | 7B | 2 |
| K4 | B | 4 | 17 | 4D | 2 |
| K4 | B | 4 | 17 | 7C | 2 |
| K5 | B | 103 | 61 | 3B | 1 |
| K5 | B | 103 | 61 | 5B | 1 |
| K6 | B | 103 | 68 | 4A | 1 |
| K6 | B | 103 | 68 | 7A | 1 |
| K7 | B | 4 | 61 | 3B | 2 |
| K7 | B | 4 | 61 | 5B | 2 |
| K8 | B | 4 | 68 | 4B | 2 |
| K8 | B | 4 | 68 | 7A | 2 |
| L1 | B | 69 | 69 | 4D | 3 |
| L2 | B | 27 | 73 | 4B | 3 |
| L3 | B | 61 | 69 | 4D | 3 |
| N1 | B | 117 | 48 | 5E | 1 |
| N1 | B | 117 | 48 | 6B | 1 |
| N2 | B | 117 | 33 | 5E | 1 |
| N2 | B | 117 | 33 | 6B | 1 |
| N3 | B | 104 | 48 | 6C | 1 |
| N3 | B | 104 | 48 | 6E | 1 |
| N4 | B | 104 | 33 | 6C | 1 |
| N4 | B | 104 | 33 | 6E | 1 |
| N5 | B | 22 | 48 | 5B | 2 |
| N5 | B | 22 | 48 | 5E | 2 |
| N6 | B | 21 | 33 | 5E | 2 |
| N6 | B | 21 | 33 | 6B | 2 |
| N7 | B | 8 | 48 | 5C | 2 |
| N7 | B | 8 | 48 | 6E | 2 |
| N8 | B | 8 | 33 | 6C | 2 |
| N8 | B | 8 | 33 | 6E | 2 |
| N9 | B | 72 | 51 | 7A | 3 |
| N9 | B | 72 | 51 | 7B | 3 |
| N9 | B | 72 | 51 | 7E | 3 |
| N10 | B | 90 | 34 | 6C | 3 |
| N10 | B | 90 | 34 | 7B | 3 |
| N10 | B | 90 | 34 | 8E | 3 |
| N11 | B | 29 | 37 | 6D | 3 |
| N11 | B | 29 | 37 | 7D | 3 |
| N11 | B | 29 | 37 | 8E | 3 |
| N12 | B | 41 | 54 | 5C | 3 |
| N12 | B | 41 | 54 | 5E | 3 |
| N13 | A | 32 | 77 | 2C | 3 |
| N14 | A | 97 | 81 | 2A | 3 |
| N15 | B | 39 | 66 | 2D | 3 |
| N16 | B | 51 | 60 | 2D | 3 |
| N30 | B | 92 | 67 | 2A | 3 |
| N31 | B | 76 | 64 | 2B | 3 |
| P10 | B | 91 | 31 | 8B | 3 |
| P11 | B | 28 | 43 | 8C | 3 |
| R1 | B | 92 | 51 | 8A | 3 |
| R2 | B | 87 | 51 | 8A | 3 |
| R3 | B | 81 | 51 | 7A | 3 |
| R4 | B | 76 | 51 | 7A | 3 |
| R5 | A | 36 | 49 | 5C | 3 |
| R6 | A | 59 | 74 | 4C | 3 |
| R7 | A | 62 | 74 | 4C | 3 |
| R8 | A | 39 | 53 | 5D | 3 |
| R9 | A | 94 | 66 | 2B | 3 |
| R10 | A | 75 | 64 | 2B | 3 |
| R11 | A | 61 | 5 | 2B | 1 |
| R12 | A | 65 | 5 | 2C | 1 |
| R13 | A | 50 | 5 | 2B | 2 |
| R14 | A | 54 | 5 | 2C | 2 |
| R15 | A | 66 | 18 | 3A | 1 |
| R16 | A | 69 | 16 | 3C | 1 |
| R17 | A | 47 | 16 | 3B | 2 |
| R18 | A | 50 | 16 | 3C | 2 |
| R19 | A | 104 | 11 | 7B | 1 |
| R20 | A | 100 | 14 | 7B | 1 |
| R21 | A | 77 | 16 | 7D | 1 |
| R22 | A | 83 | 14 | 7C | 1 |
| R23 | A | 35 | 3 | 7B | 2 |
| R24 | A | 35 | 9 | 7B | 2 |
| R25 | A | 20 | 14 | 7D | 2 |
| R26 | A | 14 | 14 | 7C | 2 |
| R27 | A | 58 | 8 | 1E | 1 |
| R28 | A | 58 | 3 | 1F | 1 |
| R29 | A | 58 | 12 | 1E | 1 |
| R30 | A | 58 | 16 | 1E | 1 |
| R31 | A | 72 | 46 | 6A | 3 |
| R32 | B | 79 | 25 | 4E | 1 |
| R33 | A | 98 | 66 | 2B | 3 |
| R34 | A | 78 | 64 | 2B | 3 |

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ROHDE & SCHWARZ

Benennung: *Designation:* ED I/Q DIFF.OUTPUT BOARD

Sprache: *Lang.:* de

Blatt: *Sh.:* 1 +

Aen: *C.I.:* 02.00

Typ: *Type:* AMIQ–B2

Datum: *Date:* 98–07–14

Abteilung: *Dpt:* 1GPK

Name: *Name:* HM

Sachnr.: *Part No.:* **1110.3768.01 XY**

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| R35 | B | 112 | 24 | 7B | 1 |
| R36 | B | 114 | 24 | 7B | 1 |
| R37 | B | 117 | 24 | 7B | 1 |
| R38 | B | 120 | 24 | 7B | 1 |
| R39 | B | 97 | 24 | 7C | 1 |
| R40 | B | 100 | 24 | 7C | 1 |
| R41 | B | 102 | 24 | 7C | 1 |
| R42 | B | 105 | 24 | 7C | 1 |
| R43 | B | 17 | 24 | 7B | 2 |
| R44 | B | 25 | 24 | 7B | 2 |
| R45 | B | 22 | 24 | 7B | 2 |
| R46 | B | 19 | 24 | 7B | 2 |
| R47 | B | 10 | 24 | 7C | 2 |
| R48 | B | 3 | 24 | 7C | 2 |
| R49 | B | 8 | 24 | 7C | 2 |
| R50 | B | 5 | 24 | 7C | 2 |
| R51 | A | 68 | 64 | 4B | 3 |
| R52 | A | 65 | 64 | 4B | 3 |
| R53 | A | 63 | 64 | 4C | 3 |
| R54 | B | 46 | 18 | 3F | 2 |
| R55 | B | 120 | 54 | 5B | 1 |
| R56 | B | 103 | 53 | 5C | 1 |
| R57 | B | 8 | 52 | 5C | 2 |
| R58 | B | 23 | 54 | 5B | 2 |
| R59 | B | 114 | 52 | 5B | 1 |
| R60 | B | 113 | 35 | 6B | 1 |
| R61 | B | 100 | 36 | 6D | 1 |
| R62 | B | 3 | 36 | 6D | 2 |
| R63 | B | 17 | 35 | 6B | 2 |
| R64 | B | 19 | 50 | 5B | 2 |
| R65 | A | 106 | 18 | 4B | 1 |
| R66 | A | 85 | 19 | 4C | 1 |
| R67 | A | 38 | 18 | 4B | 2 |
| R68 | A | 15 | 18 | 4C | 2 |
| R69 | A | 115 | 48 | 5B | 1 |
| R70 | B | 117 | 56 | 5B | 1 |
| R71 | A | 115 | 32 | 6B | 1 |
| R72 | B | 119 | 40 | 6B | 1 |
| R73 | B | 115 | 40 | 6B | 1 |
| R74 | B | 102 | 40 | 6C | 1 |
| R75 | B | 105 | 40 | 6C | 1 |
| R76 | A | 102 | 32 | 6C | 1 |
| R77 | B | 107 | 52 | 5D | 1 |
| R78 | A | 102 | 47 | 6C | 1 |
| R79 | B | 99 | 54 | 5B | 1 |
| R80 | B | 110 | 54 | 5D | 1 |
| R81 | A | 6 | 32 | 6C | 2 |
| R82 | B | 6 | 40 | 6C | 2 |
| R83 | B | 10 | 40 | 6C | 2 |
| R84 | A | 6 | 47 | 5C | 2 |
| R85 | B | 12 | 52 | 5D | 2 |
| R86 | B | 15 | 54 | 5D | 2 |
| R87 | B | 4 | 55 | 5B | 2 |
| R88 | B | 22 | 40 | 6B | 2 |
| R89 | A | 20 | 32 | 6B | 2 |
| R90 | B | 19 | 40 | 6B | 2 |
| R91 | A | 20 | 48 | 5B | 2 |
| R92 | B | 21 | 56 | 5B | 2 |
| R93 | B | 50 | 55 | 4C | 3 |
| R94 | A | 63 | 7 | 2A | 1 |
| R95 | A | 68 | 7 | 2C | 1 |
| R96 | A | 52 | 6 | 2B | 2 |
| R97 | A | 56 | 7 | 2C | 2 |
| R98 | A | 44 | 65 | 3D | 3 |
| R99 | A | 56 | 60 | 3E | 3 |
| R100 | A | 45 | 70 | 1D | 3 |
| R101 | A | 38 | 70 | 2D | 3 |
| R102 | A | 48 | 76 | 1D | 3 |
| R103 | A | 51 | 70 | 2D | 3 |
| R104 | B | 45 | 70 | 2D | 3 |
| R105 | A | 54 | 57 | 2E | 3 |
| R106 | B | 65 | 50 | 5A | 3 |
| R107 | A | 83 | 70 | 1A | 3 |
| R108 | B | 86 | 31 | 7B | 3 |
| R109 | A | 80 | 31 | 7B | 3 |
| R110 | A | 39 | 40 | 7C | 3 |
| R111 | B | 33 | 40 | 7C | 3 |
| R112 | A | 70 | 51 | 7A | 3 |
| R113 | A | 68 | 49 | 7A | 3 |
| R114 | B | 80 | 31 | 7B | 3 |
| R115 | B | 38 | 40 | 7D | 3 |
| R116 | A | 39 | 66 | 2D | 3 |
| R117 | B | 39 | 73 | 2D | 3 |
| R118 | A | 54 | 67 | 2E | 3 |
| R119 | A | 51 | 60 | 2D | 3 |
| R120 | B | 99 | 51 | 5D | 1 |
| R121 | B | 4 | 52 | 5D | 2 |
| R122 | A | 80 | 70 | 1B | 3 |
| R123 | A | 74 | 70 | 2B | 3 |
| R124 | A | 90 | 70 | 2A | 3 |
| R125 | A | 115 | 70 | 4A | 1 |
| R126 | A | 15 | 70 | 4A | 2 |
| R127 | A | 83 | 81 | 1A | 3 |
| R128 | A | 45 | 76 | 1C | 3 |
| R129 | B | 114 | 56 | 5B | 1 |
| R130 | B | 17 | 56 | 5B | 2 |
| R131 | B | 93 | 37 | 8B | 3 |
| R132 | B | 27 | 34 | 8D | 3 |
| R133 | B | 102 | 51 | 5C | 1 |
| R134 | B | 7 | 53 | 5C | 2 |
| U1 | B | 70 | 4 | 2B | 1 |
| U1 | B | 70 | 4 | 2B | 1 |
| U1 | B | 70 | 4 | 2C | 1 |
| U1 | B | 70 | 4 | 2C | 1 |
| U1 | B | 70 | 4 | 2F | 1 |
| U2 | B | 52 | 4 | 2B | 2 |
| U2 | B | 52 | 4 | 2B | 2 |
| U2 | B | 52 | 4 | 2C | 2 |
| U2 | B | 52 | 4 | 2C | 2 |
| U2 | B | 52 | 4 | 2F | 2 |
| V1 | A | 92 | 12 | 1A | 1 |
| V2 | A | 70 | 6 | 1C | 1 |
| V3 | A | 45 | 4 | 1B | 2 |
| V4 | A | 41 | 11 | 1C | 2 |
| V5 | A | 110 | 18 | 4B | 1 |
| V6 | A | 63 | 11 | 2B | 1 |
| V7 | A | 89 | 18 | 3C | 1 |
| V8 | A | 66 | 11 | 2C | 1 |
| V9 | A | 34 | 18 | 4C | 2 |
| V10 | A | 49 | 11 | 2B | 2 |
| V11 | A | 53 | 11 | 2C | 2 |
| V12 | A | 11 | 18 | 3D | 2 |
| V13 | A | 110 | 70 | 3A | 1 |
| V14 | A | 11 | 70 | 3B | 2 |
| V15 | B | 109 | 21 | 7A | 1 |
| V16 | B | 109 | 24 | 7B | 1 |
| V17 | B | 107 | 24 | 7D | 1 |
| V18 | B | 107 | 21 | 7C | 1 |
| V19 | B | 12 | 21 | 7C | 2 |
| V20 | B | 12 | 24 | 7D | 2 |
| V21 | B | 14 | 21 | 7A | 2 |
| V22 | B | 14 | 24 | 7B | 2 |
| V23 | B | 92 | 34 | 8C | 3 |
| V24 | B | 25 | 33 | 8D | 3 |
| V25 | B | 94 | 39 | 8B | 3 |
| V26 | B | 27 | 38 | 8C | 3 |
| V27 | B | 97 | 63 | 3B | 3 |
| V28 | B | 36 | 63 | 3D | 3 |
| V29 | B | 79 | 58 | 3B | 3 |
| V30 | B | 58 | 64 | 3D | 3 |
| X1 | B | 107 | 11 | 8B | 1 |
| X2 | B | 81 | 11 | 8C | 1 |
| X3 | B | 36 | 11 | 8B | 2 |
| X4 | B | 10 | 11 | 8C | 2 |
| X25 | B | 76 | 80 | 4B | 3 |
| X111 | B | 112 | 76 | 5B | 1 |
| X112 | B | 12 | 76 | 4B | 2 |

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ROHDE & SCHWARZ

Benennung: *Designation:* ED I/Q DIFF.OUTPUT BOARD

Sprache: *Lang.:* de

Blatt: *Sh.:* 2 –

Aen: *C.I.:* 02.00

Typ: *Type:* AMIQ–B2

Datum: *Date:* 98–07–14

Abteilung: *Dpt:* 1GPK

Name: *Name:* HM

Sachnr.: *Part No.:* 1110.3768.01 XY

ROHDE&SCHWARZ

# Circuit Documents

**for Module**

## Digital I/O Outputs

**1122.2203.02**

| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| . | XX VARIANTENERKLAERUNG<br>IDENTIFICATION OF MODELS<br>VAR 02 = GRUNDAUSFUEHRUNG<br>MOD 02 = BASIC MODEL | | | | |
| A30 | ED DIGITAL OUTPUT BOARD<br>HIERZU STROML.1122.2203 S<br>SEE CIRC.DIAG.1122.2203 S | 1122.2203.02 | | | |
| W25 | DY OPTION POWER CABLE | 1122.2310.00 | | | |
| W39 | DY Q DATA CABLE | 1122.2303.00 | | | |
| W40 | DY I DATA CABLE | 1122.2290.00 | | | |

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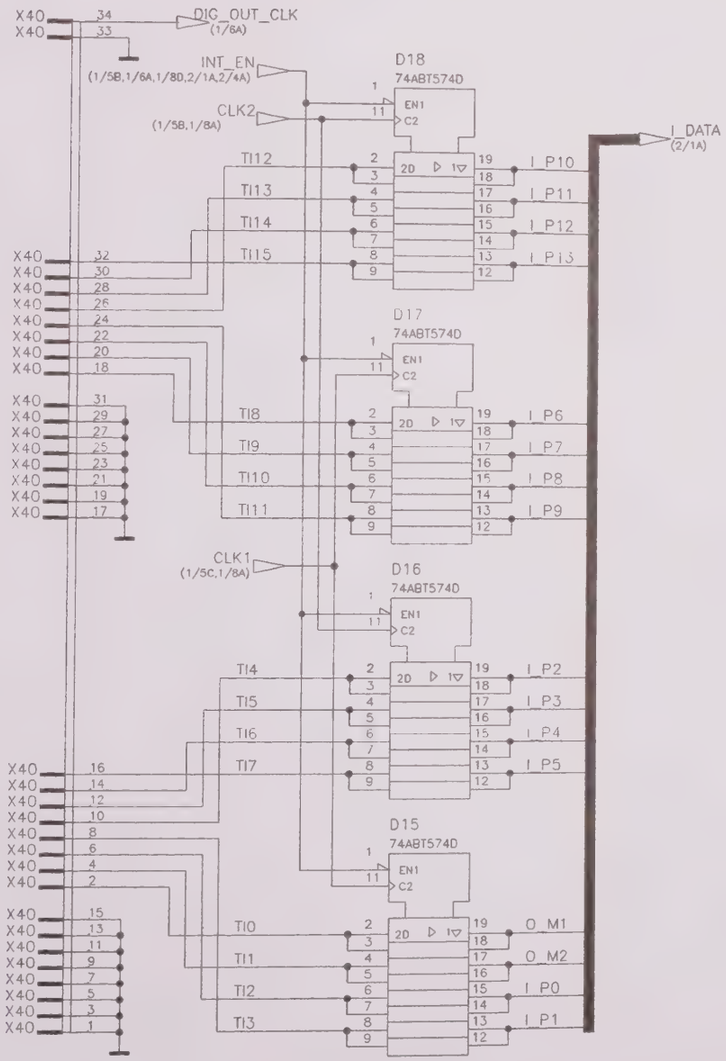
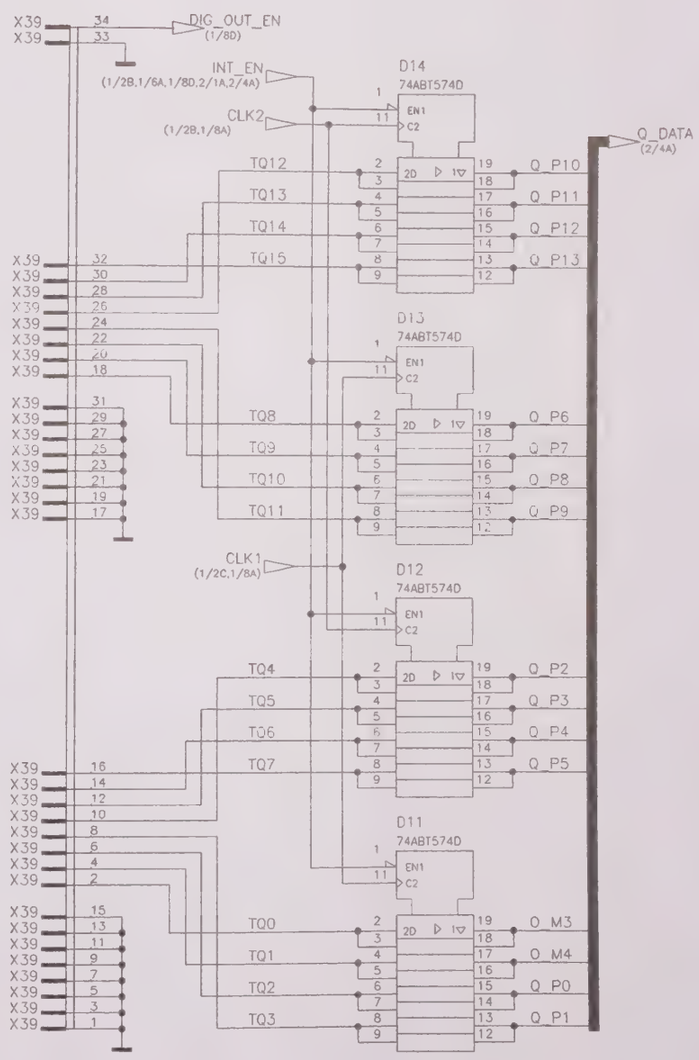
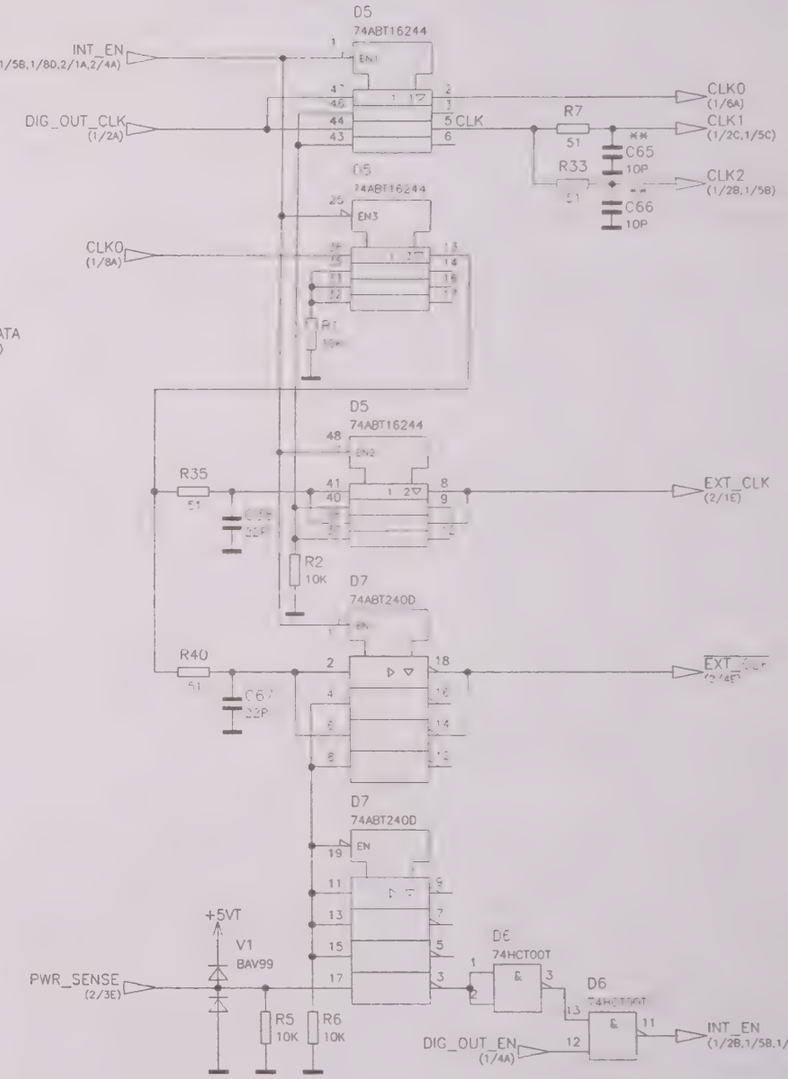
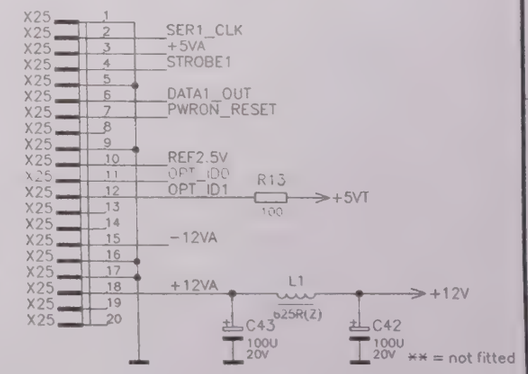
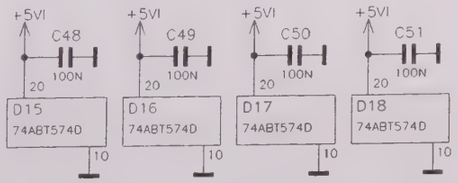
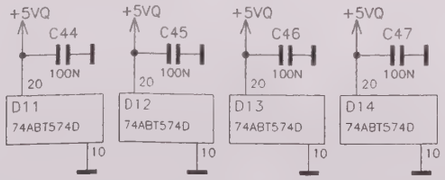


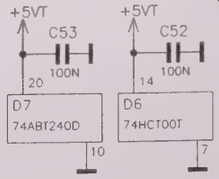



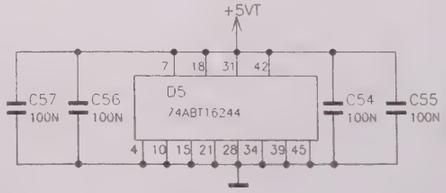



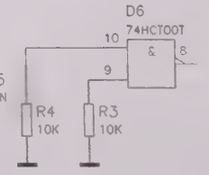



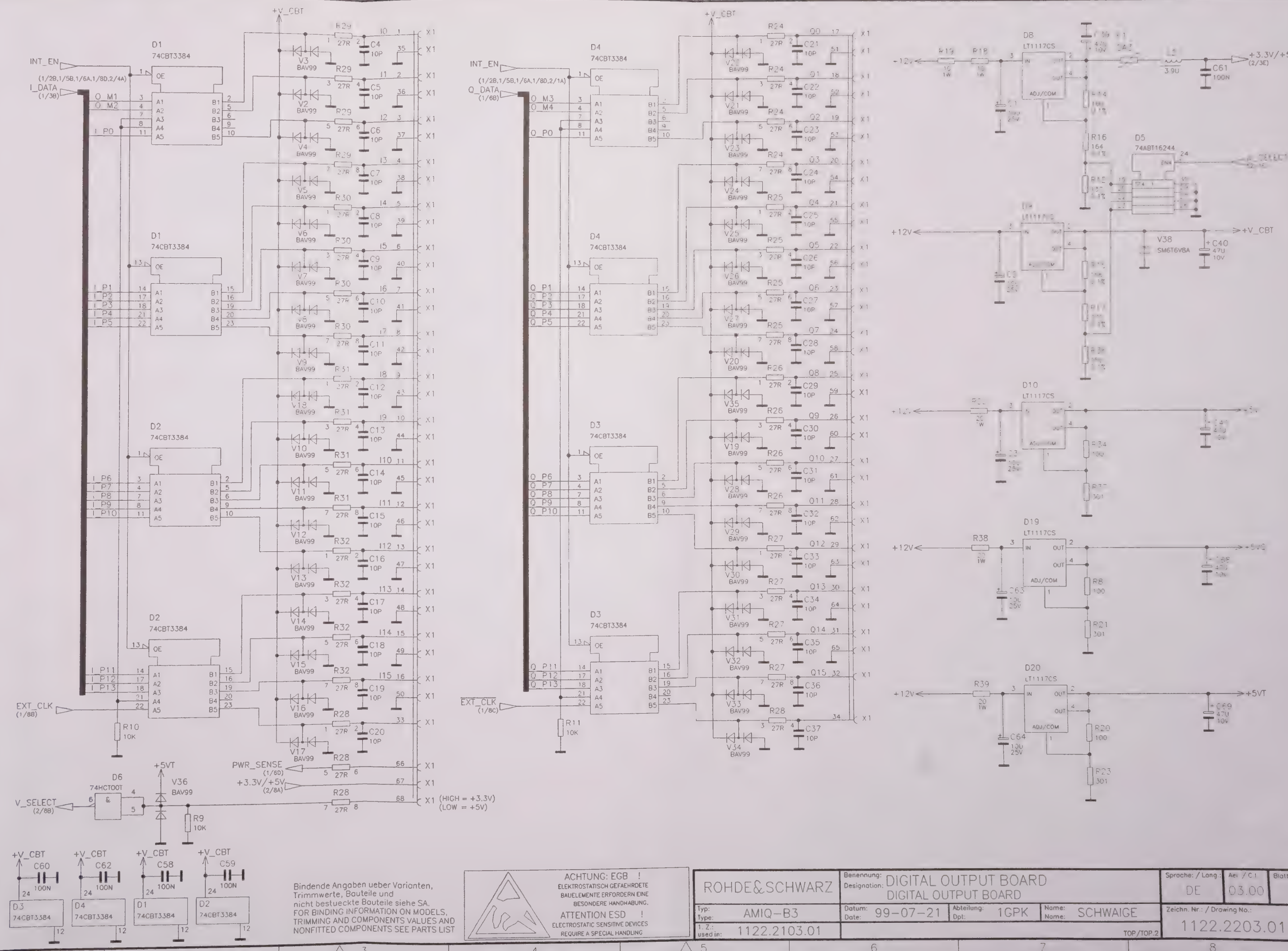




Bindende Angaben ueber Varianten, Trimmwerte, Bauteile und nicht bestueckte Bauteile siehe SA.
FOR BINDING INFORMATION ON MODELS, TRIMMING AND COMPONENTS VALUES AND NONFITTED COMPONENTS SEE PARTS LIST

ACHTUNG: EGB !
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION ESD !
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING

| | | | | | |
|---|---|---|---|---|---|
| ROHDE&SCHWARZ | Benennung: / Designation: DIGITAL OUTPUT BOARD<br>DIGITAL OUTPUT BOARD | | | Sprache: / Lang.: DE | Aen. / C.I. 03.00 | Blatt: / Sh.: 1+ |
| Typ: / Type: AMIQ-B3 | Datum: / Date: 99-07-21 | Abteilung: / Dpt: 1GPK | Name: / Name: SCHWAIGE | Zeichn. Nr.: / Drawing No.: 1122.2203.01 S | | |
| 1 Z used in 1122.2103.01 | TOP/TOP 1 | | | | | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| . | XX VARIANTENERKLAERUNG IDENTIFICATION OF MODELS | | | | |
| C1 | CE 10UF+-20% 25V RM2,5 | 3528.5969.00 | SANYO | 25 SH 10 M | |
| ..3 | CAPACITOR | | | | |
| C4 | CC 10P+-0,1PF50V NPO 0603 | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| ..37 | SMD-CERAMIC-CAPACITOR | | | | |
| C38 | CC 22PF+-1% 50VNP0 0603 | CC 0009.4609.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C39 | CE 47UF 10% 10V 7343 | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| ..41 | TANTALUM CHIP CAPACITOR | | | | |
| C42 | CE 100UF+-20% 20V RM5 | 3528.5975.00 | SANYO | 20 SH 100 M | |
| | CAPACITOR | | | | |
| C43 | CE 100UF+-20% 20V RM5 | 3528.5975.00 | SANYO | 20 SH 100 M | |
| | CAPACITOR | | | | |
| C44 | CC 100NF+-10%16V HDK 0603 | CC 1097.6292.00 | AVX | 0603YC104KAT | |
| ..62 | CERAMIC CHIP CAPACITOR | | | | |
| C63 | CE 10UF+-20% 25V RM2,5 | 3528.5969.00 | SANYO | 25 SH 10 M | |
| | CAPACITOR | | | | |
| C64 | CE 10UF+-20% 25V RM2,5 | 3528.5969.00 | SANYO | 25 SH 10 M | |
| | CAPACITOR | | | | |
| C65 | CC 10P+-0,1PF50V NPO 0603 | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C66 | CC 10P+-0,1PF50V NPO 0603 | CC 0009.4567.00 | MURATA | GRM39C0G***B50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C67 | CC 22PF+-1% 50VNP0 0603 | CC 0009.4609.00 | MURATA | GRM39C0G***F50ZPT | |
| | SMD-CERAMIC-CAPACITOR | | | | |
| C68 | CE 47UF 10% 10V 7343 | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| | TANTALUM CHIP CAPACITOR | | | | |
| C69 | CE 47UF 10% 10V 7343 | CE 0007.7300.00 | SPRAGUE | 293D X9 010 D2W | |
| | TANTALUM CHIP CAPACITOR | | | | |
| D1 | BL 74CBT3384A 2X5SWITCH | 1097.6457.00 | TEXAS | SN74CBT3384A(DB) | |
| ..4 | 10-BIT BUS SWITCH | | | | |
| D5 | BL 74ABT16244ADL 16X3SBUF | 2073.8027.00 | TEXAS | SN74ABT16244ADL | |
| | IC 16BIT 3ST BUFFER | | | | |
| D6 | BL PC74HCT00T 4X2IN.NAND | BL 0007.6156.00 | PHILIPS_SE | (PC)74HCT00D(T) | |
| | NAND GATE | | | | |
| D7 | BL 74ABT240D | BL 1110.3016.00 | TEXAS_INST | SN74ABT240(A)DW | |
| | IC LOGIC | | | | |
| D8 | BO LT1117CSTLOWDROP+VREGL | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| ..10 | VOLTAGE REGULATOR | | | | |
| D11 | BL 74ABT574AD 8XD-FF 3S | BL 0009.8404.00 | PHILIPS_SE | (74)ABT574A(D) | |
| ..18 | OCTAL D-TYPE FLIPFLOP | | | | |
| D19 | BO LT1117CSTLOWDROP+VREGL | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| | VOLTAGE REGULATOR | | | | |
| D20 | BO LT1117CSTLOWDROP+VREGL | 1036.4283.00 | LINEAR_TEC | LT1117(CST) | |
| | VOLTAGE REGULATOR | | | | |
| F1 | RK 0,3A"FUSE PTC"1,7W SMD | 1100.4690.00 | BOURNS | MF-SM-030 | |
| | RESETTABLE FUSE | | | | |
| L1 | LD SMD-DR.Z=625 OHM 50MHZ | 1078.3240.00 | PHILIPS_CO | 4330 030 41663 | |
| | CHOKE | | | | |
| L2 | LD 3,9UH 3% 0,33A 1812 | 0048.6238.00 | DALE | IMC-1812-3.9UH-3% | |
| | SMD INDUCTOR | | | | |
| R1 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..6 | SMD RESISTOR EIA0603 | | | | |
| R7 | RG 51,0 OHM+-1%TK100 0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R8 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R9 | RG 10K +-1% TK100 0603 | RG 0009.5357.00 | PHILIPS_CO | RC 22 H | |
| ..11 | SMD RESISTOR EIA0603 | | | | |
| R12 | RG 137 OHM+-0,1%TK25 1206 | 0009.9252.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R13 | RG 100R +-1% TK100 0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| | SMD RESISTOR EIA0603 | | | | |
| R14 | RG 100 OHM+-0,1%TK25 1206 | 0009.8033.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR | | | | |
| R15 | RG 156 OHM+-0,1%TK25 1206 | 0009.8779.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R16 | RG 164 OHM+-0,1%TK25 1206 | 0009.7808.00 | PHILIPS_CO | MPC 01 | |
| | SMD-RESISTOR EIA1206 | | | | |
| R17 | RG 379 OHM+-0,1%TK25 1206 | 0010.4009.00 | PHILIPS_CO | MPC 01 | |
| | RESISTOR | | | | |

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| Kennz. Comp. No. | Benennung Designation | Sachnummer Stock No. | Hersteller Manufacturer | Bezeichnung Designation | enthalten in contained in |
|---|---|---|---|---|---|
| R18 | RG 10R 1% 1W 1218 SMD RESISTOR | 0048.6344.00 | PHILIPS_CO | PRC201-10R 1% TK100 | |
| R19 | RG 10R 1% 1W 1218 SMD RESISTOR | 0048.6344.00 | PHILIPS_CO | PRC201-10R 1% TK100 | |
| R20 | RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R21 | RG 301R +-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| R22 | RG 20R 1% 1W 1218 SMD RESISTOR | 1104.2734.00 | PHILIPS_CO | PRC201-20R 1% TK100 | |
| R23 | RG 301R +-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| R24 ..32 | RN 27R X4 5% SMD1206 RESISTOR NETWORK | 2083.2709.00 | PHILIPS_CO | 2350 034 10279 | |
| R33 | RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R34 | RG 100R +-1% TK100 0603 SMD RESISTOR EIA0603 | RG 0009.5334.00 | PHILIPS_CO | RC 22 H | |
| R35 | RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| R36 | RG 150 OHM+-0,1%TK25 1206 SMD-RESISTOR EIA1206 | 0009.8091.00 | PHILIPS_CO | MPC 01 | |
| R37 | RG 301R +-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9123.00 | PHILIPS_CO | RC 22 H | |
| R38 | RG 20R 1% 1W 1218 SMD RESISTOR | 1104.2734.00 | PHILIPS_CO | PRC201-20R 1% TK100 | |
| R39 | RG 20R 1% 1W 1218 SMD RESISTOR | 1104.2734.00 | PHILIPS_CO | PRC201-20R 1% TK100 | |
| R40 | RG 51,0 OHM+-1%TK100 0603 SMD RESISTOR EIA0603 | 0009.9030.00 | PHILIPS_CO | RC 22 H | |
| V1 ..36 | AD BAV99 75V DUO UDI HIGH-SPEED DOUBLE DIODE | AD 0911.0092.00 | VALVO | BAV99 | |
| V38 | AE SM6T6V8A 6,8V SUPPR SUPPRESSOR DIODE | 0009.8733.00 | SGS-THOMSO | SM6T6V8A | |
| X1 | FM BUCHSENLEISTE 68P.SCSI CONNECTOR | 1122.2390.00 | YAMAICHI | NHS068S-002-BS0 | |
| X25 | FP STECKERLEISTE 20P.GER CONNECTOR 20P | FP 0351.3468.00 | SIEMENS | V23535-A2200-A202 | |
| X39 | FP STIFTLEISTE 34P. SMD CONNECTOR | 1100.4503.00 | SPEED_TECH | H762-9708-346 UNGEGU | |
| X40 | FP STIFTLEISTE 34P. SMD CONNECTOR | 1100.4503.00 | SPEED_TECH | H762-9708-346 UNGEGU | |

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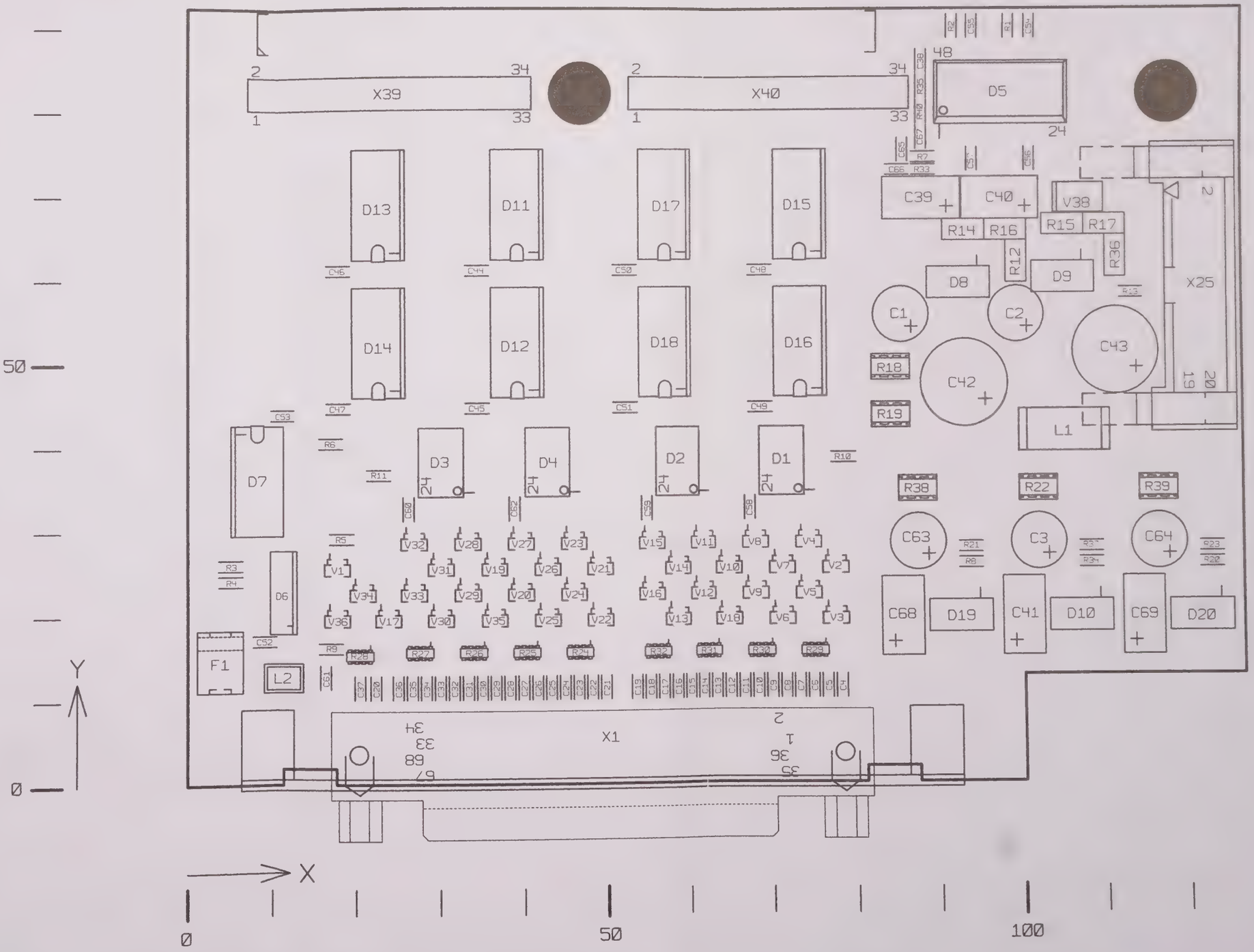


DARSTELLUNG SEITE B
VIEW ON SIDE B

ACHTUNG: EGB!
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION: ESD!
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING.

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDUNG INFORMATION ON MODELS, TRIMMING AN COMPONENT VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

| | | | | | | |
|---|---|---|---|---|---|---|
| ROHDE&SCHWARZ | Benennung: Designat.: | DIGITAL OUTPUT BOARD<br>DIGITAL OUTPUT BOARD | | | Spr.:/Lang.: de | Aei:/C.I.: 03.00 | Blatt:/Sh.: 1+ |
| Typ: Type: AMIQ-B3 | Datum: Date: 99-07-21 | Abteilung: Dept.: 1GPK | Name: Name: SCHWAIGE | | Zeichn.Nr.:/Drawing No.: 1122.2203.01 D | | |
| I.Z.: used in. 1122.2103 | | | | | | | |

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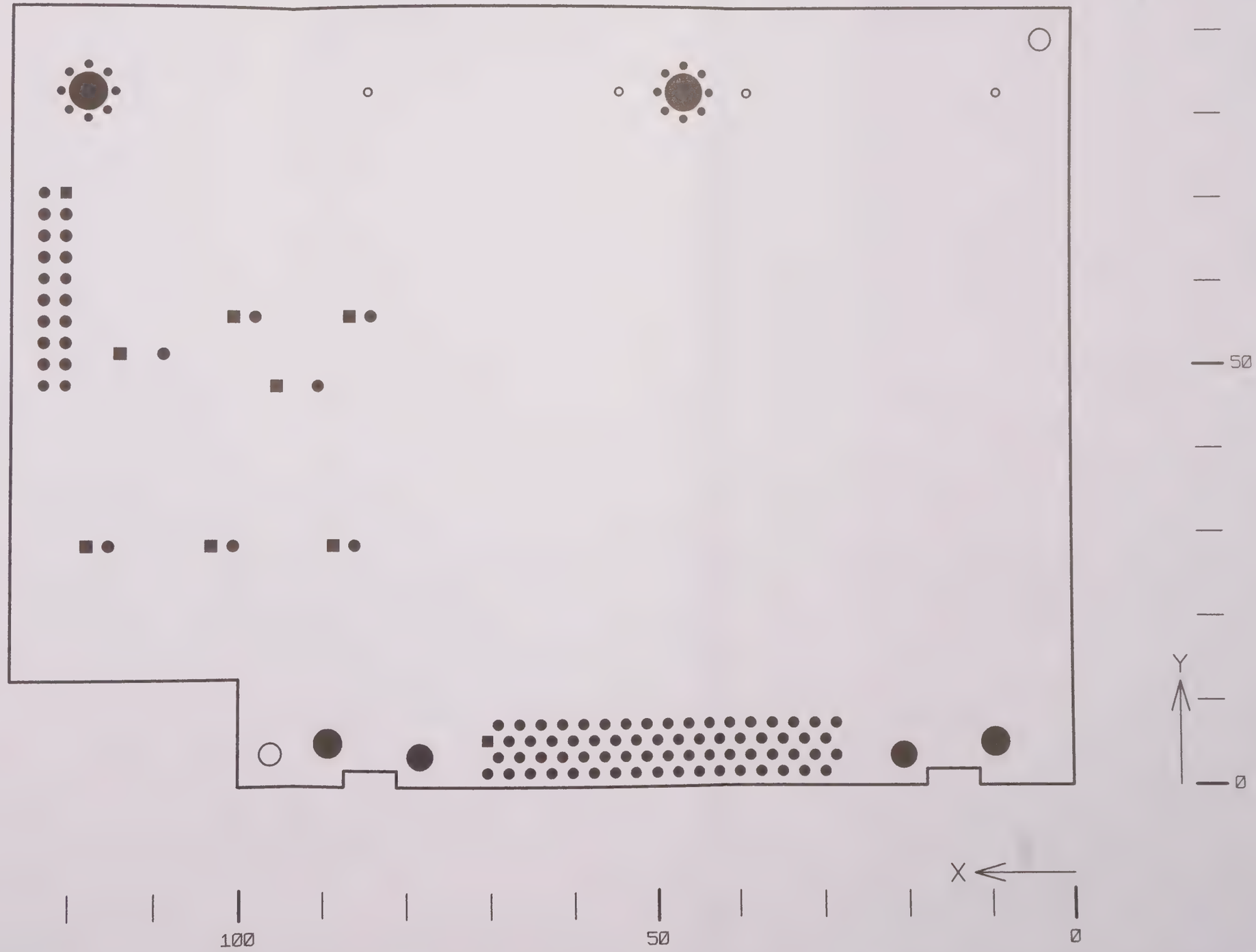


DARSTELLUNG SEITE A
VIEW ON SIDE A

ACHTUNG: EGBI
ELEKTROSTATISCH GEFAEHRDETE BAUELEMENTE ERFORDERN EINE BESONDERE HANDHABUNG.
ATTENTION: ESDI
ELECTROSTATIC SENSITIVE DEVICES REQUIRE A SPECIAL HANDLING.

BINDENDE ANGABEN UEBER VARIANTEN, TRIMMWERTE, BAUTEILWERTE UND NICHT BESTUECKTE BAUTEILE SIEHE SA.

FOR BINDUNG INFORMATION ON MODELS, TRIMMING AN COMPONENT VALUES AND NONFITTED COMPONENTS SEE PARTS LIST.

| | | | | | | |
|---|---|---|---|---|---|---|
| ROHDE&SCHWARZ | Benennung: / Designat.: | DIGITAL OUTPUT BOARD<br>DIGITAL OUTPUT BOARD | | | Spr.:/Lang.: de | Aen.:/C.I.: 03.00 | Blatt:/Sh.: 2- |
| Typ: / Type: AMIQ-B3 | Datum: / Date: 99-07-21 | Abteilung: / Dept.: 1GPK | Name: / Name: SCHWAIGE | | Zeichn.Nr.:/Drawing No.: 1122.2203.01 D | | |
| I.Z.: / used in: 1122.2103 | | | | | | | |

ROHDE&SCHWARZ

# XY-Liste

# XY List

Erklärung der Spaltenbezeichnungen:

| | |
|---|---|
| el. Kennz. | Bauelement-Kennzeichen |
| Seite | Leiterplatten-Seite, auf der sich das Bauelement befindet |
| X/Y | Koordinaten (in Millimeter) des Bauelementes auf der Leiterplatte bezogen auf den Nullpunkt |
| Planq., Bl. | Planquadrat und Seite des Schaltbildes für das jeweilige Bauelement |

Explanation of column designations:

| | |
|---|---|
| Part | Identification of instrument part |
| Side | Side of the PC board on which instrument part is positioned |
| X/Y | Coordinates (in units of millimeters) of the component on the PC board in reference to zero point |
| Sqr, Pg | Square and page of the diagram for the respective instrument part |

# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| C1 | B | 87 | 56 | 7A | 2 |
| C2 | B | 101 | 56 | 7B | 2 |
| C3 | B | 104 | 29 | 7C | 2 |
| C4 | B | 78 | 11 | 3A | 2 |
| C5 | B | 77 | 11 | 3A | 2 |
| C6 | B | 75 | 11 | 3A | 2 |
| C7 | B | 73 | 11 | 3B | 2 |
| C8 | B | 72 | 11 | 3B | 2 |
| C9 | B | 70 | 11 | 3B | 2 |
| C10 | B | 68 | 11 | 3B | 2 |
| C11 | B | 67 | 11 | 3C | 2 |
| C12 | B | 65 | 11 | 3C | 2 |
| C13 | B | 64 | 11 | 3C | 2 |
| C14 | B | 62 | 11 | 3C | 2 |
| C15 | B | 60 | 11 | 3D | 2 |
| C16 | B | 59 | 11 | 3D | 2 |
| C17 | B | 57 | 11 | 3D | 2 |
| C18 | B | 55 | 11 | 3D | 2 |
| C19 | B | 54 | 11 | 3E | 2 |
| C20 | B | 22 | 11 | 3E | 2 |
| C21 | B | 50 | 11 | 6A | 2 |
| C22 | B | 48 | 11 | 6A | 2 |
| C23 | B | 47 | 11 | 6A | 2 |
| C24 | B | 45 | 11 | 6B | 2 |
| C25 | B | 43 | 11 | 6B | 2 |
| C26 | B | 42 | 11 | 6B | 2 |
| C27 | B | 40 | 11 | 6B | 2 |
| C28 | B | 38 | 11 | 6C | 2 |
| C29 | B | 37 | 11 | 6C | 2 |
| C30 | B | 35 | 11 | 6C | 2 |
| C31 | B | 33 | 11 | 6C | 2 |
| C32 | B | 32 | 11 | 6D | 2 |
| C33 | B | 30 | 11 | 6D | 2 |
| C34 | B | 28 | 11 | 6D | 2 |
| C35 | B | 27 | 11 | 6D | 2 |
| C36 | B | 25 | 11 | 6E | 2 |
| C37 | B | 21 | 11 | 6E | 2 |
| C38 | B | 88 | 86 | 7B | 1 |
| C39 | B | 92 | 70 | 7A | 2 |
| C40 | B | 101 | 70 | 8B | 2 |
| C41 | B | 100 | 16 | 8C | 2 |
| C42 | B | 96 | 48 | 8E | 1 |
| C43 | B | 114 | 51 | 8E | 1 |
| C44 | B | 34 | 61 | 3E | 1 |
| C45 | B | 34 | 45 | 3E | 1 |
| C46 | B | 17 | 61 | 3E | 1 |
| C47 | B | 17 | 45 | 4E | 1 |
| C48 | B | 68 | 61 | 1E | 1 |
| C49 | B | 68 | 45 | 1E | 1 |
| C50 | B | 52 | 61 | 2E | 1 |
| C51 | B | 52 | 45 | 2E | 1 |
| C52 | B | 8 | 17 | 5E | 1 |
| C53 | B | 12 | 44 | 4E | 1 |
| C54 | B | 101 | 90 | 6E | 1 |
| C55 | B | 94 | 90 | 6E | 1 |
| C56 | B | 101 | 75 | 5E | 1 |
| C57 | B | 94 | 75 | 5E | 1 |
| C58 | B | 68 | 33 | 2F | 2 |
| C59 | B | 55 | 33 | 2F | 2 |
| C60 | B | 26 | 33 | 1F | 2 |
| C61 | B | 17 | 12 | 8A | 2 |
| C62 | B | 39 | 33 | 1F | 2 |
| C63 | B | 89 | 29 | 7D | 2 |
| C64 | B | 118 | 29 | 7E | 2 |
| C65 | B | 86 | 75 | 8A | 1 |
| C66 | B | 86 | 73 | 8A | 1 |
| C67 | B | 88 | 78 | 7C | 1 |
| C68 | B | 86 | 16 | 8D | 2 |
| C69 | B | 115 | 16 | 8E | 2 |
| D1 | B | 75 | 35 | 2A | 2 |
| D1 | B | 75 | 35 | 2B | 2 |
| D1 | B | 75 | 35 | 2F | 2 |
| D2 | B | 62 | 35 | 2C | 2 |
| D2 | B | 62 | 35 | 2D | 2 |
| D2 | B | 62 | 35 | 2F | 2 |
| D3 | B | 34 | 35 | 1F | 2 |
| D3 | B | 34 | 35 | 4C | 2 |
| D3 | B | 34 | 35 | 4D | 2 |
| D4 | B | 46 | 35 | 1F | 2 |
| D4 | B | 46 | 35 | 4A | 2 |
| D4 | B | 46 | 35 | 4B | 2 |
| D5 | B | 91 | 78 | 5E | 1 |
| D5 | B | 91 | 78 | 7A | 1 |
| D5 | B | 91 | 78 | 7A | 1 |
| D5 | B | 91 | 78 | 7B | 1 |
| D5 | B | 91 | 78 | 8B | 2 |
| D6 | B | 14 | 19 | 5E | 1 |
| D6 | B | 14 | 19 | 7D | 1 |
| D6 | B | 14 | 19 | 7E | 1 |
| D6 | B | 14 | 19 | 8D | 1 |
| D6 | B | 14 | 19 | 2E | 2 |
| D7 | B | 3 | 42 | 4E | 1 |
| D7 | B | 3 | 42 | 7C | 1 |
| D7 | B | 3 | 42 | 7C | 1 |
| D8 | B | 95 | 63 | 7A | 2 |
| D9 | B | 108 | 64 | 7B | 2 |
| D10 | B | 110 | 23 | 7C | 2 |
| D11 | B | 44 | 64 | 3E | 1 |
| D11 | B | 44 | 64 | 5D | 1 |
| D12 | B | 44 | 47 | 3E | 1 |
| D12 | B | 44 | 47 | 5C | 1 |
| D13 | B | 28 | 64 | 3E | 1 |
| D13 | B | 28 | 64 | 5B | 1 |
| D14 | B | 28 | 47 | 4E | 1 |
| D14 | B | 28 | 47 | 5B | 1 |
| D15 | B | 78 | 64 | 1E | 1 |
| D15 | B | 78 | 64 | 2D | 1 |
| D16 | B | 78 | 47 | 1E | 1 |
| D16 | B | 78 | 47 | 2C | 1 |
| D17 | B | 62 | 64 | 2B | 1 |
| D17 | B | 62 | 64 | 2E | 1 |
| D18 | B | 62 | 47 | 2B | 1 |
| D18 | B | 62 | 47 | 2E | 1 |
| D19 | B | 95 | 23 | 7D | 2 |
| D20 | B | 124 | 23 | 7E | 2 |
| F1 | B | 4 | 18 | 7A | 2 |
| L1 | B | 110 | 42 | 8E | 1 |
| L2 | B | 10 | 13 | 8A | 2 |
| R1 | B | 99 | 90 | 7B | 1 |
| R2 | B | 92 | 90 | 7B | 1 |
| R3 | B | 6 | 26 | 7E | 1 |
| R4 | B | 6 | 24 | 6E | 1 |
| R5 | B | 18 | 29 | 7D | 1 |
| R6 | B | 16 | 41 | 7D | 1 |
| R7 | B | 89 | 75 | 8A | 1 |
| R8 | B | 93 | 26 | 7D | 2 |
| R9 | B | 18 | 16 | 2E | 2 |
| R10 | B | 78 | 39 | 2E | 2 |
| R11 | B | 24 | 37 | 4E | 2 |
| R12 | B | 100 | 64 | 7B | 2 |
| R13 | B | 114 | 58 | 8E | 1 |
| R14 | B | 92 | 66 | 7A | 2 |
| R15 | B | 104 | 67 | 7B | 2 |
| R16 | B | 97 | 66 | 7A | 2 |
| R17 | B | 109 | 67 | 7B | 2 |
| R18 | B | 84 | 48 | 7A | 2 |
| R19 | B | 84 | 42 | 6A | 2 |
| R20 | B | 122 | 26 | 7E | 2 |
| R21 | B | 95 | 28 | 7D | 2 |
| R22 | B | 102 | 36 | 7C | 2 |
| R23 | B | 124 | 28 | 7E | 2 |
| R24 | B | 48 | 16 | 5A | 2 |
| R24 | B | 48 | 16 | 5A | 2 |
| R24 | B | 48 | 16 | 5A | 2 |
| R24 | B | 48 | 16 | 5B | 2 |
| R25 | B | 42 | 16 | 5B | 2 |
| R25 | B | 42 | 16 | 5B | 2 |
| R25 | B | 42 | 16 | 5B | 2 |
| R25 | B | 42 | 16 | 5C | 2 |
| R26 | B | 35 | 16 | 5C | 2 |
| R26 | B | 35 | 16 | 5C | 2 |
| R26 | B | 35 | 16 | 5C | 2 |
| R26 | B | 35 | 16 | 5D | 2 |
| R27 | B | 29 | 16 | 5D | 2 |
| R27 | B | 29 | 16 | 5D | 2 |
| R27 | B | 29 | 16 | 5D | 2 |
| R27 | B | 29 | 16 | 5E | 2 |
| R28 | B | 22 | 16 | 3E | 2 |
| R28 | B | 22 | 16 | 3E | 2 |
| R28 | B | 22 | 16 | 3E | 2 |
| R28 | B | 22 | 16 | 5E | 2 |
| R29 | B | 76 | 16 | 3A | 2 |
| R29 | B | 76 | 16 | 3A | 2 |
| R29 | B | 76 | 16 | 3A | 2 |
| R29 | B | 76 | 16 | 3B | 2 |
| R30 | B | 70 | 16 | 3B | 2 |
| R30 | B | 70 | 16 | 3B | 2 |
| R30 | B | 70 | 16 | 3B | 2 |
| R30 | B | 70 | 16 | 3C | 2 |
| R31 | B | 64 | 16 | 3C | 2 |
| R31 | B | 64 | 16 | 3C | 2 |
| R31 | B | 64 | 16 | 3C | 2 |
| R31 | B | 64 | 16 | 3D | 2 |
| R32 | B | 57 | 16 | 3D | 2 |
| R32 | B | 57 | 16 | 3D | 2 |
| R32 | B | 57 | 16 | 3D | 2 |
| R32 | B | 57 | 16 | 3E | 2 |
| R33 | B | 89 | 73 | 8A | 1 |
| R34 | B | 108 | 26 | 7C | 2 |
| R35 | B | 88 | 83 | 6B | 1 |
| R36 | B | 112 | 64 | 7C | 2 |
| R37 | B | 109 | 28 | 7C | 2 |
| R38 | B | 88 | 36 | 7D | 2 |
| R39 | B | 117 | 36 | 7E | 2 |
| R40 | B | 88 | 81 | 6C | 1 |
| V1 | B | 17 | 27 | 6D | 1 |
| V2 | B | 77 | 27 | 3A | 2 |
| V3 | B | 77 | 21 | 3A | 2 |
| V4 | B | 74 | 30 | 3A | 2 |
| V5 | B | 74 | 24 | 3B | 2 |
| V6 | B | 70 | 21 | 3B | 2 |
| V7 | B | 70 | 27 | 3B | 2 |
| V8 | B | 67 | 30 | 3B | 2 |
| V9 | B | 67 | 24 | 3C | 2 |
| V10 | B | 64 | 27 | 3C | 2 |
| V11 | B | 61 | 30 | 3C | 2 |
| V12 | B | 61 | 24 | 3D | 2 |
| V13 | B | 58 | 21 | 3D | 2 |
| V14 | B | 58 | 27 | 3D | 2 |
| V15 | B | 55 | 30 | 3D | 2 |
| V16 | B | 55 | 24 | 3E | 2 |
| V17 | B | 23 | 21 | 3E | 2 |
| V18 | B | 64 | 21 | 3C | 2 |
| V19 | B | 36 | 27 | 5C | 2 |
| V20 | B | 39 | 24 | 5C | 2 |
| V21 | B | 48 | 27 | 5A | 2 |
| V22 | B | 48 | 21 | 5A | 2 |
| V23 | B | 45 | 30 | 5A | 2 |
| V24 | B | 45 | 24 | 5B | 2 |
| V25 | B | 42 | 21 | 5B | 2 |
| V26 | B | 42 | 27 | 5B | 2 |
| V27 | B | 39 | 30 | 5B | 2 |
| V28 | B | 32 | 30 | 5C | 2 |
| V29 | B | 32 | 24 | 5D | 2 |
| V30 | B | 29 | 21 | 5D | 2 |
| V31 | B | 29 | 27 | 5D | 2 |
| V32 | B | 26 | 30 | 5D | 2 |
| V33 | B | 26 | 24 | 5E | 2 |
| V34 | B | 20 | 24 | 5E | 2 |
| V35 | B | 36 | 21 | 5C | 2 |
| V36 | B | 17 | 21 | 2E | 2 |
| V38 | B | 104 | 70 | 8B | 2 |

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# Nicht–Service–Relevante Bauteile / Non–Service–Relevant Components

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|
| X1 | B | 70 | 5 | 3A | 2 |
| X25 | B | 121 | 70 | 7D | 1 |
| X39 | B | 8 | 80 | 4E | 1 |
| X40 | B | 54 | 80 | 1E | 1 |

| el. Kennz *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|

| el. Kennz. *Part* | Seite *Side* | X | Y | Planq. *Sqr* | Bl. *Pg* |
|---|---|---|---|---|---|

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ROHDE & SCHWARZ

Benennung: *Designation:* ED DIGITAL OUTPUT BOARD / DIGITAL OUTPUT BOARD

Sprache: *Lang.:* de

Blatt: *Sh.:* 2 –

Aer: *C.I.:* 03.00

Typ: *Type:* AMIQ–B3

Datum: *Date:* 99–07–21

Abteilung: *Dpt:* 1GPK

Name: *Name:* SR

Sachnr.: *Part No.:* **1122.2203.01 XY**

1 A 1

MP MASTER

MA31677